

**Oncor Electric Delivery Company LLC  
List of Matthew A. Troxle's Prior Commission Testimony**

- **Arkansas Public Service Commission:**

**Docket No. 10-010-U** – *In The Matter Of A Notice Of Inquiry Into Energy Efficiency – March 2010, Rebuttal – April 2010.*

**Docket No. 07-081-TF** – *In The Matter Of The Application Of CenterPoint Energy Arkansas Gas For Approval Of Its "Quick Start" Energy Efficiency Program, Portfolio And Plan Including Its Cost Recovery Rider – July 2009, Rebuttal – September 2009, Sur-rebuttal – October 2009.*

- **Louisiana Public Service Commission:**

**Docket No. U-33437** – *Report Of Earnings And Return On Equity For The Louisiana Division For The Twelve Months Ending June 30, 2014 For CenterPoint Energy Arkla – June 2016.*

**Docket No. U-33438** – *Report of Earnings and Return On Equity For The Louisiana Division For The Twelve Months Ending June 30, 2014 For CenterPoint Energy Entex – June 2016.*

- **Mississippi Public Service Commission:**

**Docket No. 2018-UN-71** – *Notice Of CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Mississippi Gas, Of The Filing Of Routine Changes In Its Rate Regulation Adjustment Rider – May 2018.*

**Docket No. 2018-UN-72** – *Notice Of CenterPoint Energy Resources Corp. d/b/a CenterPoint Energy Mississippi Gas, Of The Filing Of Routine Changes In Its Supplemental Growth Rider – May 2018.*

- **Public Utilities Commission Of The State Of Minnesota:**

**Docket No. G-008/GR-15-424** – *In The Matter Of The Application Of CenterPoint Energy Resources Corp., d/b/a CenterPoint Energy Minnesota Gas For Authority To Increase Rates For Natural Gas Utility Service In Minnesota – August 2015, Rebuttal – December 2015, Sur-rebuttal – January 2016.*

**Docket No. G-008/GR-13-316** – *In The Matter Of The Application Of CenterPoint Energy Resources Corp., d/b/a CenterPoint Energy Minnesota Gas For Authority To Increase Rates For Natural Gas Utility Service In Minnesota – August 2013, Rebuttal – December 2013.*

**Docket No. G-008/GR-08-1075** – *In The Matter Of The Application Of CenterPoint Energy Resources Corp., d/b/a CenterPoint Energy Minnesota Gas For Authority To Increase Rates For Natural Gas Utility Service In Minnesota – November 2008, Rebuttal – July 2009.*

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• **Public Utility Commission Of Texas:**

**Docket No. 53601** – *Application Of Oncor Electric Delivery Company LLC For Authority To Change Rates – May 2022, Supplemental – September 2022, Rebuttal – September 2022.*

**Docket No. 53145** – *Application Of Oncor Electric Delivery Company LLC For Interim Update Of Wholesale Transmission Rates – January 2022.*

**Docket No. 52352** – *Application Of Oncor Electric Delivery Company LLC For Interim Update Of Wholesale Transmission Rates – July 2021.*

**Docket No. 52178** – *Application Of Oncor Electric Delivery Company LLC to Adjust Its Energy Efficiency Cost Recovery Factor – May 2021.*

**Docket No. 51996** – *Application Of Oncor Electric Delivery Company LLC For Approval to Amend Its Distribution Cost Recovery Factor – April 2021.*

**Docket No. 51767** – *Application Of Oncor Electric Delivery Company LLC For Interim Update Of Wholesale Transmission Rates – January 2021.*

**Docket No. 51115** – *Application Of Oncor Electric Delivery Company LLC For Interim Update Of Wholesale Transmission Rates – July 2020.*

**Docket No. 50886** – *Application Of Oncor Electric Delivery Company LLC to Adjust Its Energy Efficiency Cost Recovery Factor – May 2020.*

**Docket No. 50734** – *Application Of Oncor Electric Delivery Company LLC For Approval to Amend Its Distribution Cost Recovery Factor – April 2020.*

**Docket No. 50490** – *Application Of Oncor Electric Delivery Company LLC For Interim Update Of Wholesale Transmission Rates – January 2020.*

**Docket No. 49421** – *Application Of CenterPoint Energy Houston Electric, LLC For Authority To Change Rates – April 2019, Rebuttal – June 2019.*

**Docket No. 44572** – *Application Of CenterPoint Energy Houston Electric, LLC For Approval Of A Distribution Cost Recovery Factor Pursuant To P.U.C. Substantive Rule 25.243 – April 2015, Rebuttal – June 2015, Settlement – June 2015.*

**Docket No. 42111** – *Complaint Of Nawaid Isa Against Ambit Energy And CenterPoint Energy Houston Electric, LLC – April 2015.*

**Docket No. 41906** – *Compliance Filing Of CenterPoint Energy Houston Electric, LLC For Approval Of A Revised Tariff For Retail Delivery Service In Compliance With New Substantive Rule 25.133 And Revised Substantive Rule 25.214 – September 2013, Settlement – April 2014.*

**Docket No. 41540** – *Application Of CenterPoint Energy Houston Electric, LLC, For Approval Of An Adjustment To Its Energy Efficiency Cost Recovery Factor – May 2013.*

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List of Matthew A. Troxle's Prior Commission Testimony**

**Docket No. 40356** – *Application Of CenterPoint Energy Houston Electric, LLC, For Approval Of An Adjustment To Its Energy Efficiency Cost Recovery Factor – May 2012.*

**Docket No. 39933** – *Application Of CenterPoint Energy Houston Electric, LLC, For Interim Update Of Wholesale Transmission Rate Pursuant To P.U.C. Substantive Rule §25.192(h)(1) – November 2011.*

**Docket No. 39066** – *Claims For September – December 1999 Period Severed From Docket No. 38780 (Remand Of Docket No. 20381, Proceeding To Modify ERCOT Transmission Rates For 1999 Pursuant To Subst. R. 23.67 – August 2011.*

**Docket No. 39633** – *Application Of CenterPoint Energy Houston Electric, LLC, For Interim Update Of Wholesale Transmission Rate Pursuant To P.U.C. Substantive Rule §25.192(h)(1) – August 2011.*

**Docket No. 39363** – *Application Of CenterPoint Energy Houston Electric, LLC, For Approval Of An Adjustment To Its Energy Efficiency Cost Recovery Factor – April 2011, Rebuttal – August 2011.*

**Docket No. 38339** – *Application Of CenterPoint Electric Delivery Company, LLC, For Authority To Change Rates – June 2010, Rebuttal – October 2010.*

**Docket No. 36701** – *Petition Of Texas Utility Solutions LLS For Declaratory Order Of Eligibility As A Transmission Service Customer – February 2010.*

**Docket No. 32766** – *Application Of Southwestern Public Service Company For (1) Authority To Change Rates; (2) Reconciliation Of Its Fuel Costs For 2004 And 2005; (3) Authority To Revise The Semi-Annual Formulae Originally Approved In Docket No. 27751 Used To Adjust Its Fuel Factors; And (4) Related Relief – January 2007.*

**Docket No. 32907** – *Application Of Entergy Gulf States, Inc. For Determination Of Hurricane Reconstruction Costs – October 2006.*

**Docket No. 32093** – *Petition By Commission Staff For A Review Of The Rates Of CenterPoint Energy Houston Electric, LLC Pursuant To PURA §36.151 – August 2006.*

**Docket No. 28466** – *Application Of Cap Rock Energy Corporation For Electric Service Tariff – August 2005.*

**Docket No. 30216** – *Notice Of Violation By Cap Rock Energy Of PURA Section 36.004(a) Relating To Equality Of Service And Rates And P.U.C. Subst. R. 25.241(b) Relating To Form And Filing Of Tariff – April 2005, Rebuttal – June 2005.*

**Docket No. 30215** – *Notice Of Violation By Cap Rock Energy Of P.U.C. Subst. R. 25.28(b) Relating To Bill Payments And Adjustments – April 2005, Rebuttal - June 2005.*

**Docket No. 30706** – *Application Of CenterPoint Energy Houston Electric, LLC For A Competition Transition Charge (CTC) – March 2005.*

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**List of Matthew A. Troxle's Prior Commission Testimony**

**Docket No. 28813** – *Petition To Inquire Into The Reasonableness Of The Rates And Services Of Cap Rock Energy Corporation – September 2004.*

**Docket No. 28840** – *Application Of AEP Texas Central Company For Authority To Change Rates – February 2004.*

**Docket No. 28980** – *Petition Of CenterPoint Energy Houston Electric, LLC For Finding That The 40% Threshold Under PURA §39.202(e) Has Been Met For Small Commercial Customers – January 2004.*

**Docket No. 28563** – *Compliance Filing Of Oncor Electric Delivery Company Pursuant To Subst. R. 25.311 Regarding Competitive Meter Ownership – November 2003.*

**Docket No. 28562** – *Compliance Filing And Petition Of CenterPoint Energy Houston Electric, LLC To Provide Competitive Metering Service Credit Pursuant To PUC Subst. R. 25.311 – November 2003.*

**Docket No. 28560** – *Compliance Filing Of AEP Texas North Company To Provide Competitive Metering Credit – November 2003.*

**Docket No. 28559** – *Compliance Filing Of AEP Texas Central Company To Provide Competitive Metering Credit – November 2003.*

**Docket No. 28556** – *Texas-New Mexico Power Company's Compliance Filing To Provide Competitive Metering Credit Pursuant To Subst. R. 25.311 – November 2003.*

**Docket No. 28585** – *Application Of TXU SESCO Energy Services Company To Increase Price To Beat Fuel Factors And Reduce Price To Beat Base Rates – October 2003 – Adopted Testimony of Brian H. Lloyd.*

**Docket No. 25421** – *Application Of LCRA Transmission Services Corp. To Charge Rates For Transmission And Transformation Utility Cost Of Service – October 2002.*

**Docket No. 25429** – *Appeal Of Oncor From An Ordinance Of The City Of Allen And Request For Interim Relief – August 2002.*

**Docket No. 25960** – *Application Of Brazos Electric Power Cooperative, Inc. To Change Rates For Wholesale Transmission Service – Interim Rates Phase – August 2002.*

**Docket No. 25874** – *Application Of Mutual Energy WTU, LP To Increase Price To Beat Fuel Factors – May 2002.*

**Docket No. 24449** – *Application Of Southwestern Electric Power Company To Implement The Fuel Factor Component Of Price To Beat Rates – October 2001.*

**Docket No. 24336** – *Application Of Entergy Gulf States, Inc. For Approval Of Price To Beat Fuel Factor – September 2001.*

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**Docket No. 24194** – *Application Of Texas-New Mexico Power Company To Establish Price To Beat Fuel Factor – August 2001.*

**Docket No. 24040** – *Application Of TXU Electric Company To Implement Price To Beat Fuel Factors – August 2001.*

**Docket No. 23950** – *Petition Of Reliant Energy, Inc. To Establish Price To Beat Fuel Factor and Request For Good Cause Exception To Subst. R. 25.41 – July 2001.*

**Docket No. 22351** – *Application Of Southwestern Public Service For Approval Of Unbundled Cost Of Service Rate Pursuant To PURA §39.201 And Public Utility Commission Substantive Rule §25.344 – February 2001.*

**Docket No. 22350** – *Application Of TXU Electric Company For Approval Of Unbundled Cost Of Service Rate Pursuant To PURA §39.201 And Public Utility Commission Substantive Rule §25.344 – February 2001.*

**Docket No. 22356** – *Application Of Entergy Gulf States Inc. For Approval Of Unbundled Cost Of Service Rate Pursuant To PURA §39.201 And Public Utility Commission Substantive Rule §25.344 – January 2001.*

**Docket No. 22355** – *Application Of Reliant Energy Incorporated For Approval Of Unbundled Cost Of Service Rate Pursuant To PURA §39.201 And Public Utility Commission Substantive Rule §25.344 – December 2000.*

**Docket No. 22350** – *Application Of TXU Electric Company For Approval Of Unbundled Cost Of Service Rate Pursuant To PURA §39.201 And Public Utility Commission Substantive Rule §25.344 – November 2000.*

**Docket No. 22349** – *Application Of Texas-New Mexico Power Company For Approval Of Unbundled Cost Of Service Rate Pursuant To PURA §39.201 And Public Utility Commission Substantive Rule §25.344 – ECOM Phase – September 2000.*

- **Railroad Commission Of Texas:**

**Docket No. 9902** – *Statement Of Intent Of CenterPoint Energy Resources Corp., D/B/A CenterPoint Energy Entex And CenterPoint Energy Texas Gas To Increase Rates On A Division Wide Basis In The Houston Division – July 2009, Rebuttal – October 2009.*

**Schedule H: Distribution Revenues, Sales and Customer Data**  
Oncor DCRF Baseline, 12/31/2021 Test Year

LINE	DESCRIPTION	VOLT	Billing Unit Type (1)	Reference Schedule Workpaper	Billing units approved in Docket No. 53601 (2)
1	Residential	Sec	kWh	WP/Sched H	46,057,336,770
2	Secondary 10 kW and Below	Sec	kWh	WP/Sched H	1,879,492,852
3	Secondary Greater than 10 kW	Sec	kW	WP/Sched H	154,748,884
4	Primary 10 kW and Below	Primary	kWh	WP/Sched H	27,825,268
5	Primary Greater than 10 kW	Primary	kW	WP/Sched H	39,469,464
6	Substation	Primary	kW	WP/Sched H	12,298,888
7	Transmission	Trans	kW	WP/Sched H	43,125,273
8	Lighting	Sec		WP/Sched H	379,980,295
9	Wholesale - Substation	Primary	kW	WP/Sched H	1,579,356
10	Wholesale - Distribution Line	Primary	kW	WP/Sched H	1,821,139

Oncor Electric Delivery Company LLC  
History of DCRF Charges  
2018 - 2021

Rate Class	Billing Units	2018 DCRF Docket No. 48231 Effective 9-1-2018	2019 DCRF Docket No.49427 Effective 9/1/2019	2020 DCRF Docket No.50734 Effective 9/1/2020	2021 DCRF Docket No. 51996 Effective 9/1/2021
<b>Residential Service</b>	\$ / kWh	0.000183	0.000474	0.001287	0.002130
<b>Secondary Service:</b>					
≤ 10 kW	\$ / kWh	0.00019	0.000503	0.001374	0.002481
> 10 kW	\$ / Billing kW	0.037928	0.099593	0.266647	0.490802
<b>Primary Service:</b>					
≤ 10 kW	\$/kWh	0.000092	0.000221	0.00062	0.001235
> 10 kW Distribution Line	\$ / Billing kW	0.019495	0.046956	0.111613	0.200420
Substation	\$ / Billing kW	0.005353	0.012099	0.029207	0.044707
<b>Transmission Service</b>	\$ / Billing kW	0.000486	0.001175	0.002994	0.004528
<b>Lighting Service</b>	\$ / kWh	0.000595	0.001633	0.004595	0.008533
<b>Wholesale Transmission Service:</b>					
Substation Service	\$ / Billing kW	0.005748	0.013982	0.04554	0.088025
Distribution Line Service	\$ / Billing kW	0.028013	0.065844	0.194644	0.350914

**6.1.1 Delivery System Charges**

Applicable: Entire Certified Service Area

Effective Date: September 1, 2023

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## 6.1.1.6.4 Rider Distribution Cost Recovery Factor (DCRF)

### APPLICABILITY

Each Retail Customer connected to the Company's transmission or distribution system will be assessed a nonbypassable distribution service charge adjustment pursuant to this rider. The charges derived herein, pursuant to Substantive Rule § 25.243, are necessitated by incremental distribution costs not included in the Company's last general rate case proceeding before the Commission.

### MONTHLY RATE

The Competitive Retailer, on behalf of the Retail Customer, will be assessed this distribution service charge adjustment based on the monthly per unit cost (DCRF) multiplied times the Retail Customer's appropriate monthly billing determinant (kWh or Billing kW).

The DCRF shall be calculated for each rate according to the following formula:

$$\text{DCRF} = \frac{[(\text{DIC}_C - \text{DIC}_{RC}) * \text{ROR}_{AT}] + (\text{DEPR}_C - \text{DEPR}_{RC}) + (\text{FIT}_C - \text{FIT}_{RC}) + (\text{OT}_C - \text{OT}_{RC}) - \sum(\text{DISTREV}_{RC\text{-CLASS}} * \% \text{GROWTH}_{\text{CLASS}})] * \text{ALLOC}_{\text{CLASS}}}{\text{BD}_{\text{CLASS}}}$$

rounded to nearest \$.000001

Where:

- $\text{DIC}_C$  = Current Net Distribution Invested Capital
- $\text{DIC}_{RC}$  = Net Distribution Invested Capital from the last comprehensive base-rate proceeding.
- $\text{ROR}_{AT}$  = After-Tax Rate of Return as defined in Substantive Rule § 25.243(d)(2).
- $\text{DEPR}_C$  = Current Depreciation Expense, as related to Current Gross Distribution Invested Capital, calculated using the currently approved depreciation rates.
- $\text{DEPR}_{RC}$  = Depreciation Expense, as related to Gross Distribution Invested Capital, from the last comprehensive base-rate proceeding.
- $\text{FIT}_C$  = Current Federal Income Tax, as related to Current Net Distribution Invested Capital, including the change in federal income taxes related to the change in return on rate base and synchronization of interest associated with the change in rate base resulting from additions to and retirements of distribution plant as used to compute Net Distribution Invested Capital.
- $\text{FIT}_{RC}$  = Federal Income Tax, as related to Net Distribution Invested Capital from the last comprehensive base-rate proceeding.
- $\text{OT}_C$  = Current Other Taxes (taxes other than income taxes and taxes associated with the return on rate base), as related to Current Net Distribution Invested capital, calculated using current tax rates and the methodology from the last comprehensive base-rate proceeding, and not including municipal franchise fees.
- $\text{OT}_{RC}$  = Other Taxes, as related to Net Distribution Invested Capital from the last comprehensive base-rate proceeding, and not including municipal franchise fees.

$\text{DISTREV}_{RC\text{-CLASS}}$  (Distribution Revenues by rate class based on Net Distribution Invested Capital from the last comprehensive base-rate proceeding) =  $(\text{DIC}_{RC\text{-CLASS}} * \text{ROR}_{AT}) + \text{DEPR}_{RC\text{-CLASS}} + \text{FIT}_{RC\text{-CLASS}} + \text{OT}_{RC\text{-CLASS}}$ .



**Tariff for Retail Delivery Service  
Oncor Electric Delivery Company LLC**

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**6.1.1 Delivery System Charges**

Applicable: Entire Certified Service Area

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$\%GROWTH_{CLASS}$  (Growth in Billing Determinants by Class) =  $(BD_{C-CLASS} - BD_{RC-CLASS}) / BC_{RC-CLASS}$ .

$DI_{RC-CLASS}$  = Net Distribution Invested Capital allocated to the rate class from the last comprehensive base-rate proceeding.

$DEPR_{RC-CLASS}$  = Depreciation Expense, as related to Gross Distribution Invested Capital, allocated to the rate class in the last comprehensive base-rate proceeding.

$FIT_{RC-CLASS}$  = Federal Income Tax, as related to Net Distribution Invested Capital, allocated to the rate class in the last comprehensive base-rate proceeding.

$OT_{RC-CLASS}$  = Other Taxes, as related to Net Distribution Invested Capital, allocated to the rate class in the last comprehensive base-rate proceeding, and not including municipal franchise fees.

$ALLOC_{CLASS}$  = Rate Class Allocation Factor approved in the last comprehensive base-rate proceeding, calculated as: total net distribution plant allocated to rate class, divided by total net distribution plant. For situations in which data from the last comprehensive base-rate proceeding are not available to perform the described calculation, the Rate Class Allocation Factor shall be calculated as the total distribution revenue requirement allocated to the rate class (less any identifiable amounts explicitly unrelated to Distribution Invested Capital) divided by the total distribution revenue requirement (less any identifiable amounts explicitly unrelated to Distribution Invested Capital) for all classes as approved by the commission in the electric utility's last comprehensive base-rate case.

The Allocation Factor for each listed rate schedule is as follows:

Residential Service	55.8203%
Secondary Service Less Than or Equal to 10 kW	2.0953%
Secondary Service Greater Than 10 kW	34.9913%
Primary Service Less Than or Equal to 10 kW	0.0284%
Primary Service Greater Than 10 kW Distribution Line	5.5524%
Primary Service Greater Than 10 kW Substation	0.5328%
Transmission Service	0.1234%
Lighting Service	0.5060%
Wholesale Service	
Substation	0.0638%
Distribution Line	0.2863%

$BD_{C-CLASS}$  = Rate Class Billing Determinants (weather-normalized and adjusted to reflect the number of customers at the end of the period) for the 12 months ending on the date used for purposes of determining the Current Net Distribution Invested Capital. For customer classes billed primarily on the basis of kilowatt-hour billing determinants, the DCRF shall be calculated using kilowatt-hour billing determinants. For customer classes billed primarily on the basis of demand billing determinants, the DCRF shall be calculated using demand billing determinants.

$BD_{RC-CLASS}$  = Rate Class Billing Determinants used to set rates in the last comprehensive base-rate proceeding.

**NOTICE**

This rate schedule is subject to the Company's Tariff and Applicable Legal Authorities.

**Tariff for Retail Delivery Service  
Oncor Electric Delivery Company LLC**

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**6.1.1 Delivery System Charges**

Applicable: Entire Certified Service Area

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Distribution Cost Recovery Factor (DCRF)

Effective Date	Residential Service	Secondary Service		Primary Service		Transmission Service	Lighting Service
	(\$/kWh)	≤ 10 kW (\$/kWh)	>10 kW (\$/Billing kW)	≤ 10 kW (\$/kWh)	>10 kW Distribution Line (\$/Billing kW)	Substation (\$/Billing kW)	(\$/kWh)
Sept 1, 2023	0.001851	0.001747	0.349875	0.001475	0.201323	0.063339	0.003845
May 1, 2023	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Sept 1, 2021	0.002213	0.002481	0.490802	0.001235	0.200042	0.044707	0.004528
Sept. 1, 2020	0.001287	0.001374	0.266647	0.000620	0.111613	0.029207	0.002994
Sept. 1, 2019	0.000474	0.000503	0.099593	0.000221	0.046956	0.012099	0.001175
Sept. 1, 2018	0.000183	0.000190	0.037928	0.000092	0.019495	0.005353	0.000486

**3.0 Rate Schedules**

**Applicable: Wholesale Transmission Service**

**Effective Date: September 1, 2023**

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**3.6 Rider WDCRF – Wholesale Distribution Cost Recovery Factor**

**Application**

Each WDSC will be assessed a nonbypassable distribution service charge adjustment pursuant to this rider. The charges derived herein, pursuant to Substantive Rule § 25.243, are necessitated by incremental distribution costs not included in the Company's last general rate case proceeding before the Commission.

**Monthly Rate**

The WDSC receiving service will be assessed this distribution service charge adjustment based on the monthly per unit cost (WDCRF) multiplied times the WDSC's appropriate monthly billing determinant.

The WDCRF shall be calculated for each rate according to the following formula:

$$\text{WDCRF} = \frac{[(\text{DIC}_C - \text{DIC}_{RC}) * \text{ROR}_{AT}] + (\text{DEPR}_C - \text{DEPR}_{RC}) + (\text{FIT}_C - \text{FIT}_{RC}) + (\text{OT}_C - \text{OT}_{RC}) - \sum(\text{DISTREV}_{RC\text{-CLASS}} * \% \text{GROWTH}_{\text{CLASS}})] * \text{ALLOC}_{\text{CLASS}}}{\text{BD}_{C\text{-CLASS}}}$$

rounded to nearest \$.000001

Where:

- $\text{DIC}_C$  = Current Net Distribution Invested Capital
- $\text{DIC}_{RC}$  = Net Distribution Invested Capital from the last comprehensive base-rate proceeding.
- $\text{ROR}_{AT}$  = After-Tax Rate of Return as defined in Substantive Rule § 25.243(d)(2).
- $\text{DEPR}_C$  = Current Depreciation Expense, as related to Current Gross Distribution Invested Capital, calculated using the currently approved depreciation rates.
- $\text{DEPR}_{RC}$  = Depreciation Expense, as related to Gross Distribution Invested Capital, from the last comprehensive base-rate proceeding.
- $\text{FIT}_C$  = Current Federal Income Tax, as related to Current Net Distribution Invested Capital, including the change in federal income taxes related to the change in return on rate base and synchronization of interest associated with the change in rate base resulting from additions to and retirements of distribution plant as used to compute Net Distribution Invested Capital.
- $\text{FIT}_{RC}$  = Federal Income Tax, as related to Net Distribution Invested Capital from the last comprehensive base-rate proceeding.
- $\text{OT}_C$  = Current Other Taxes (taxes other than income taxes and taxes associated with the return on rate base), as related to Current Net Distribution Invested capital, calculated using current tax rates and the methodology from the last comprehensive base-rate proceeding, and not including municipal franchise fees.
- $\text{OT}_{RC}$  = Other Taxes, as related to Net Distribution Invested Capital from the last comprehensive base-rate proceeding, and not including municipal franchise fees.

$\text{DISTREV}_{RC\text{-CLASS}}$  (Distribution Revenues by rate class based on Net Distribution Invested Capital from the

**TARIFF FOR TRANSMISSION SERVICE  
ONCOR ELECTRIC DELIVERY COMPANY LLC**

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**3.0 Rate Schedules**

**Applicable: Wholesale Transmission Service**

**Effective Date: September 1, 2023**

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last comprehensive base-rate proceeding) =  $(DIC_{RC-CLASS} * ROR_{AT}) + DEPR_{RC-CLASS} + FIT_{RC-CLASS} + OT_{RC-CLASS}$ .

$\%GROWTH_{CLASS}$  (Growth in Billing Determinants by Class) =  $(BD_{C-CLASS} - BD_{RC-CLASS}) / BC_{RC-CLASS}$ .

$DIC_{RC-CLASS}$  = Net Distribution Invested Capital allocated to the rate class from the last comprehensive base-rate proceeding.

$DEPR_{RC-CLASS}$  = Depreciation Expense, as related to Gross Distribution Invested Capital, allocated to the rate class in the last comprehensive base-rate proceeding.

$FIT_{RC-CLASS}$  = Federal Income Tax, as related to Net Distribution Invested Capital, allocated to the rate class in the last comprehensive base-rate proceeding.

$OT_{RC-CLASS}$  = Other Taxes, as related to Net Distribution Invested Capital, allocated to the rate class in the last comprehensive base-rate proceeding, and not including municipal franchise fees.

$ALLOC_{CLASS}$  = Rate Class Allocation Factor approved in the last comprehensive base-rate proceeding, calculated as: total net distribution plant allocated to rate class, divided by total net distribution plant. For situations in which data from the last comprehensive base-rate proceeding are not available to perform the described calculation, the Rate Class Allocation Factor shall be calculated as the total distribution revenue requirement allocated to the rate class (less any identifiable amounts explicitly unrelated to Distribution Invested Capital) divided by the total distribution revenue requirement (less any identifiable amounts explicitly unrelated to Distribution Invested Capital) for all classes as approved by the commission in the electric utility's last comprehensive base-rate case.

The Allocation Factor for each listed rate schedule is as follows:

Residential Service	55.8203%
Secondary Service Less Than or Equal to 10 kW	2.0953%
Secondary Service Greater Than 10 kW	34.9913%
Primary Service Less Than or Equal to 10 kW	0.0284%
Primary Service Greater Than 10 kW Distribution Line	5.5524%
Primary Service Greater Than 10 kW Substation	0.5328%
Transmission Service	0.1234%
Lighting Service	0.5060%
Wholesale Service	
Substation	0.0638%
Distribution Line	0.2863%

$BD_{C-CLASS}$  = Rate Class Billing Determinants (weather-normalized and adjusted to reflect the number of customers at the end of the period) for the 12 months ending on the date used for purposes of determining the Current Net Distribution Invested Capital. For customer classes billed primarily on the basis of kilowatt-hour billing determinants, the WDCRF shall be calculated using kilowatt-hour billing determinants. For customer classes billed primarily on the basis of demand billing determinants, the WDCRF shall be calculated using demand billing determinants.

$BD_{RC-CLASS}$  = Rate Class Billing Determinants used to set rates in the last comprehensive base-rate proceeding.

**TARIFF FOR TRANSMISSION SERVICE  
ONCOR ELECTRIC DELIVERY COMPANY LLC**

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**3.0 Rate Schedules**

**Applicable: Wholesale Transmission Service**

**Effective Date: September 1, 2023**

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**Monthly Surcharge**

The WDCRF surcharge for each of the Company's applicable wholesale rate schedules is as follows:

<u>Rate Schedule</u>	<u>WDCRF Surcharge</u>
Wholesale Substation Service	\$0.069767 per kW, billed at Annual Demand (kW)
Wholesale Distribution Line Service	\$0.249131 per Billing kW

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Annual Demand (kW) is the highest 15-minute kW recorded at the Point of Interconnection in the 12-month period ended with the current month.

The Billing kW applicable to the Distribution System Charge shall be the higher of the NCP kW for the current billing month or 80% of the highest monthly NCP kW established in the 11 months preceding the current billing month (80% ratchet).

**Notice**

This Rate Schedule is subject to the Company's Tariff for Transmission Service and Applicable Legal Authorities.

**Tariff for Retail Delivery Service  
Oncor Electric Delivery Company LLC**

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**6.1.1 Delivery System Charges**  
Applicable: Entire Certified Service Area  
Effective Date: August 24, 2023

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### **6.1.1.6.7 Rider MG – Mobile Generation**

#### **AVAILABILITY**

Applicable to all Retail Customers capable of receiving Delivery Service using Company facilities provided in accordance with PURA § 39.918(b).

#### **MONTHLY BILL AMOUNT**

Rider MG shall be effective each September bill cycle. The amount to be charged annually is determined by multiplying the Retail Customer's Distribution Billing Determinant (kWh consumption or kW billing demand, whichever is appropriate) by the appropriate Rider MG factor and is rounded to the nearest cent.

The total amount to be recovered annually under this rider shall include any over/under-recovered amount from the previous collection period.

#### **NET MONTHLY BILL AMOUNT**

The Rider MG amount for each of the Company's applicable retail rate schedules is as follows:

<b><u>Rate Schedule</u></b>	<b><u>Rider MG Factor</u></b>
Residential Service	\$0.000258 per kWh
Secondary Service Less than or Equal to 10 kW	\$0.000159 per kWh
Secondary Service Greater than 10 kW	\$0.048759 per Distribution System billing kW
Primary Service Less than or Equal to 10 kW	\$0.000147 per kWh
Primary Service Greater than 10 kW – Distribution Line	\$0.041526 per Distribution System billing kW
Primary Service Greater than 10 kW - Substation	\$0.000000 per Distribution System billing kW
Transmission Service	\$0.000000 per Distribution System billing kW
Lighting Service	\$0.000234 per kWh

#### **NOTICE**

This Rate Schedule is subject to the Company's Tariff and Applicable Legal Authorities.

**TARIFF FOR TRANSMISSION SERVICE  
ONCOR ELECTRIC DELIVERY COMPANY LLC**

**3.0 Rate Schedules****Applicable: Wholesale Transmission Service****Effective Date: September 1, 2023****Sheet: 8****Revision: One****Page 1 of 1****3.8 Rider WMG – Wholesale Mobile Generation****Application**

Applicable to all WDSCs receiving Wholesale Distribution Line Service receiving Delivery Service using Company facilities provided in accordance with PURA § 39.918(b).

**Monthly Surcharge**

Rider WMG shall be effective each September bill cycle. The amount to be charged annually is determined by multiplying the Billing kW by the Rider WMG factor and is rounded to the nearest cent.

The total amount to recovered annually under this rider shall include any over/under-recovered amount from the previous collection period.

The WMG surcharge is as follows:

Rate Schedule	WMG
Wholesale Distribution Line Service	\$0.056664 per Billing kW

The Billing kW applicable to the Distribution System Charge shall be the higher of the NCP kW for the current billing month or 80% of the highest monthly NCP kW established in the 11 months preceding the current billing month (80% ratchet).

**Notice**

This Rate Schedule is subject to the Company's Tariff for Transmission Service and Applicable Legal Authorities.

**INDEX TO THE DIRECT TESTIMONY  
OF COLER D. SNELLEMAN, WITNESS FOR  
ONCOR ELECTRIC DELIVERY COMPANY LLC**

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**DIRECT TESTIMONY OF COLER D. SNELLEMAN**

**I. POSITION AND QUALIFICATIONS**

Q. PLEASE STATE YOUR NAME, CURRENT EMPLOYMENT POSITION AND BUSINESS ADDRESS.

A. My name is Coler D. Snelleman. I am employed by Oncor Electric Delivery Company LLC ("Oncor" or "Company"). I hold the position of Director of Strategic Sourcing - Transmission and Distribution Supply Chain Management. My business address is 777 Main Street, Fort Worth, Texas.

Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL EXPERIENCE.

A. I graduated with a bachelor's degree in Economics from the United States Military Academy at West Point, New York in 1998. From there, I went on to obtain a master's degree in Engineering Management from Southern Methodist University in Dallas, Texas in 2001. After receiving my master's degree, I spent fifteen years working in a variety of manufacturing and sourcing roles within the supply chain organization at General Mills, including in plant leadership and in business operations at the company's global headquarters in Minneapolis, Minnesota. From 2014 to 2018, I was the head of General Mills' sourcing organization for all of the Latin American region. I joined Oncor on August 13, 2018.

Q. WHAT HAVE YOUR RESPONSIBILITIES BEEN WITH ONCOR AS THEY RELATE TO ITS APPLICATION TO AMEND ITS DISTRIBUTION COST RECOVERY FACTOR ("DCRF")?

A. I am responsible for purchasing all materials and services relating to the supply chain for Oncor's transmission and distribution systems.

1 Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE THE  
2 PUBLIC UTILITY COMMISSION OF TEXAS ("COMMISSION")?

3 A. Yes. I presented pre-filed testimony in Docket No. 51100 on behalf of the  
4 City of Lubbock, acting by and through Lubbock Power & Light. This is my  
5 first time submitting testimony on behalf of Oncor.

6 **II. PURPOSE OF DIRECT TESTIMONY**

7 Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?

8 A. The purpose of my direct testimony is to support Oncor's application to  
9 amend its DCRF by addressing Oncor's investments, including working  
10 reserves, in meters and meter-related hardware and distribution  
11 transformers, regulators, and capacitors. I describe the details regarding  
12 Oncor's utilization of these assets, the operational reasons why Oncor must  
13 periodically replace them and, for those reasons, why it is critical for the  
14 Company to maintain a working reserve in order to provide adequate and  
15 uninterrupted service to its customers. I also explain that the associated  
16 investment is used and useful and ensures the reliability and overall service  
17 quality of Oncor's distribution system. I discuss Oncor's need for capital  
18 spare substation transformers and mobile substation equipment and the  
19 reasons why these assets are appropriately included for recovery in this  
20 proceeding. In addition, my testimony discusses Oncor's need to purchase  
21 land for substations and the reasons why Oncor's substation land should  
22 be included for recovery in this proceeding. Finally, my direct testimony  
23 addresses Oncor's investment in and use of mobile generation authorized  
24 by Public Utility Regulatory Act ("PURA") § 39.918 and Oncor's Work and  
25 Asset Management ("WaAM") tool and the reasons why these investments  
26 are appropriately included for recovery in this proceeding.

27 Please see the direct testimony of Company witness Mr. W. Alan  
28 Ledbetter for the appropriate regulatory accounting treatment of these  
29 assets.

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1 My direct testimony, sponsored schedules, and workpapers were  
2 prepared by me or under my direction, supervision or control, and are true  
3 and correct. I will address each topic in the same order reflected in the  
4 above listing.

5 **III. INVESTMENTS IN METERS**

6 Q. WHAT PROCESS DOES ONCOR USE TO DETERMINE HOW MANY  
7 METERS IT NEEDS TO PURCHASE EACH YEAR?

8 A. Each year, Oncor conducts a detailed review of the growth experienced  
9 within its service territory, the number and type of meters that have failed  
10 over the course of the year, and any other unique circumstances that may  
11 impact Oncor's meter requirements. As part of Oncor's detailed annual  
12 review, Oncor determines the number and type of meters it will need to keep  
13 on hand across its service territory where active meters are installed, as  
14 well as the number and type of meters needed to keep the approximately  
15 800 measurement and distribution field resources who are responsible for,  
16 among other tasks, installing meters across Oncor's service territory  
17 properly stocked. These meter needs are monitored throughout the year,  
18 and purchases are adjusted as needed. This strategy allows Oncor to  
19 promptly respond to customers' service needs and comply with its tariff  
20 requirements.

21 Q. PLEASE EXPLAIN HOW GROWTH INFLUENCES ONCOR'S METER  
22 PURCHASING NEEDS.

23 A. Oncor continues to experience significant load and premise growth in parts  
24 of its service territory. The Company has served, on average, 81,500 new  
25 customer premises each year over the last four years. Currently, Oncor is  
26 projecting that it will serve approximately 84,000 new customer premises in  
27 2023. As of the end of December 2022, the five-year compound annual  
28 growth rate for Oncor's residential, commercial and industrial customers  
29 was 2.2%. As Oncor continues to serve new premises, it must purchase

1 and install new meters at those new locations and maintain a reserve of  
2 meters should one or more need to be replaced.

3 Q. WHAT ACTION DOES ONCOR TAKE WHEN A METER FAILURE  
4 OCCURS?

5 A. Oncor's meters continually perform a self-diagnostic health check. As part  
6 of this process, each meter is programmed to send event and/or alarm  
7 notifications to the Company that identify any issue with the meter's ability  
8 to function properly. When event or alarm notifications indicating a failure  
9 are received from a meter, Oncor replaces the existing meter as soon as  
10 practical. Examples of these events or alarms include those for when a  
11 meter clock is out of sync, a meter's non-volatile memory is corrupted, or  
12 when a meter has a communication failure. Meters may also need to be  
13 replaced by Oncor as a result of a failure to accept firmware upgrades that  
14 are pushed over Oncor's communication network to the meter.

15 Q. ARE THERE ANY OTHER REASONS THAT ONCOR MAY NEED TO  
16 REPLACE A METER?

17 A. Yes. There are other reasons for replacing meters such as customer  
18 tampering, which is an issue that has been recognized by the Commission  
19 and addressed with specific rules. Also, weather-related impacts or  
20 vandalism may cause Oncor to replace a meter to ensure continuity and  
21 accurate measurement of electric service to the customer.

22 Additionally, meters may be replaced due to equipment either being  
23 missing, stolen, damaged, or not fully functioning due to a component  
24 failure. A non-functioning meter is removed from service and returned to  
25 the manufacturer which, depending on failure type, may be able to upgrade  
26 the meter with a new circuit board, after which time Oncor can re-install the  
27 meter at a customer's premise. The newly installed circuit boards are  
28 equipped with more memory and a faster processor, resulting in an  
29 advanced metering system meter with the latest functionality.

- 1 Q. DOES ONCOR REPLACE METERS IN A TIMELY MANNER?
- 2 A. Yes, it is Oncor's standard practice to take prompt action on all meter  
3 replacements. Oncor's customers and market participants expect accurate  
4 metering for billing. In fact, under Sections 4.7.2 and 4.7.2.2 of Oncor's  
5 Tariff for Retail Delivery Service, the Company is precluded from  
6 performing estimated meter reads for more than three consecutive months  
7 before performing an actual meter read, except in cases where the retail  
8 customer has failed to provide access to the meter.
- 9 Q. DOES ONCOR ORDER METERS IN ADVANCE OF INSTALLATION AND  
10 ENERGIZATION?
- 11 A. Yes. Oncor maintains a working reserve of meters to ensure customer and  
12 market participant requirements are met given variable manufacturing lead  
13 times, customer-service dates, and replacement needs. Typical lead times  
14 to obtain meters from the manufacturer are approximately 54 weeks. If  
15 specialty meter items are required, the lead time can be even longer.  
16 Another factor that impacts meter lead times is manufacturer plant closings  
17 at the end of each year for the holidays. Other factors such as customer  
18 timelines can also impact the number of meters Oncor maintains in working  
19 reserves at a given time. For example, Oncor has high-rise apartment  
20 development projects for which the currently expected due dates for service  
21 can extend six months to a year beyond the deadline originally anticipated.  
22 Oncor orders meters and holds them for the project based on the original  
23 anticipated customer-service date, without knowing whether (or for how  
24 long) the date may be extended due to customer circumstances.
- 25 Q. DOES ONCOR IMMEDIATELY INSTALL METERS WHEN THEY ARE  
26 RECEIVED FROM THE MANUFACTURER?
- 27 A. No. Once meters are received from the manufacturer at the Company's  
28 centralized systems operating center, the devices must be added to the  
29 Company's meter management system and sample tests conducted before

1 making the units available for installation, which typically takes less than a  
2 week. The meters are then deployed to the service centers and field  
3 resources described above. Each service center has an established target  
4 minimum and maximum reserve level necessary to provide timely service  
5 to customers based upon historical and projected meter needs.

6 Q. DO METERS AND METER-RELATED HARDWARE HELD IN RESERVE  
7 HAVE TO BE INSTALLED OR ENERGIZED TO BE CONSIDERED TO BE  
8 "IN SERVICE"?

9 A. No, they do not. From an operational perspective, the units held in reserve  
10 at any time during the period beginning January 1, 2022 through December  
11 31, 2022 (the DCRF update period) are part and parcel of Oncor's day-to-  
12 day service to the public. Using meters as an example, it would not be  
13 feasible from a reliability or customer service perspective for Oncor to  
14 purchase only the exact number and type of meters it needs to install and  
15 energize immediately upon receipt from the manufacturer. Rather, Oncor  
16 must purchase meters to be kept on hand in order to adequately provide  
17 electric service. The meters and meter-related hardware that Oncor  
18 purchases and provides to its service center storerooms and to its field  
19 resource teams are critical to ensuring that Oncor keeps electricity flowing  
20 to all customer premises as well as ensuring all consumption is captured  
21 and properly accounted for in the Electric Reliability Council of Texas  
22 market in a timely manner. For all these reasons, Oncor's meter  
23 investments, whether energized or held in reserve, were placed in service  
24 during the DCRF update period to provide timely service to customers.

25 Q. ARE ONCOR'S METER INVESTMENTS THAT WERE HELD IN  
26 RESERVE AS OF THE END OF THE DCRF UPDATE PERIOD USED AND  
27 USEFUL IN THE COMPANY'S PROVISION OF ELECTRIC SERVICE?

28 A. Yes. Given the lead time needed for purchasing meters from the  
29 manufacturer and the need to have meters on hand for the purposes

described above, having additional meters in reserve, on a day-to-day basis, was and is essential to Oncor's provision of electric service. The reliability and overall service quality of Oncor's distribution system would be impaired if Oncor purchased only the exact number of meters it expects to install and energize at any particular point in time. By purchasing and keeping adequate working reserves of meters and meter-related hardware to address unanticipated meter failures, outages, weather-related damage, or new customer installations in the near-term, Oncor was and is able to provide adequate and continuous service to the public and, therefore, the associated investment is used and useful.

**IV. INVESTMENTS IN DISTRIBUTION TRANSFORMERS, REGULATORS, AND CAPACITORS**

Q. DOES ONCOR INCLUDE AS PART OF ITS NET DISTRIBUTION INVESTED CAPITAL CERTAIN COSTS SPENT ON ACQUIRING DISTRIBUTION ASSETS THAT ARE NOT YET ENERGIZED, BUT HELD IN RESERVE? PLEASE EXPLAIN.

A. Yes. As I detail further below, and similar to the meter example above, from a customer service and reliability perspective, Oncor must purchase in advance certain long-lead-time distribution assets (such as transformers, including regulators or regulating transformers, and capacitors), some of which must be held in reserve. For example, the lead times for distribution transformers vary, by style, from 20 to 58 weeks from the time that Oncor orders a transformer until the transformer is received from the manufacturer. The lead time in any particular case will be dependent upon manufacturing capacity and availability of raw materials and specific components required to build the transformer at the specified voltage, rating, and configuration requested. Due to global supply chain constraints, the lead times have extended.

1           Having transformers available for installation is imperative to Oncor's  
2           ability to provide reliable service with minimal interruption to electric  
3           customers. Given the cost and the lead time for this type of distribution  
4           asset, as well as the large variability in types of transformers on Oncor's  
5           system, it is not feasible from either an operational perspective or a  
6           reliability perspective for Oncor to wait to purchase the asset until Oncor  
7           has an immediate need to install and energize it; doing so would  
8           significantly prolong new customer installation and impair Oncor's ability to  
9           respond to unexpected, emergency needs as they arise.

10           For these reasons, Oncor maintains a working reserve supply of  
11           distribution transformers. During 2022, Oncor purchased 39,939  
12           transformer units, 26,797 (67.1%) of which it subsequently installed in 2022.  
13           The Company held the remainder in reserve to meet emergency and  
14           customer needs. On average, Oncor installs more than 73 distribution  
15           transformers a day. This number could be substantially higher during  
16           storms and other times when the need for replacements on the system is  
17           high. As I explain further below, all of these assets, whether energized or  
18           held in working reserve, were in service from an operational perspective  
19           and used and useful in connection with Oncor's service to the public.

20    Q.    IN ADDITION TO DISTRIBUTION TRANSFORMERS, ARE THERE  
21           OTHER TYPES OF DISTRIBUTION ASSETS WITH LONG LEAD TIMES?

22    A.    Yes, the average lead time for capacitors exceeds the lead time for some  
23           transformers. The lead time for capacitors has extended to 40 weeks. In  
24           calendar year 2022, Oncor purchased 3,269 capacitor units. Oncor also  
25           installed 2,931 capacitors during this same period. As with transformers,  
26           for these types of long-lead-time assets, Oncor cannot wait to purchase the  
27           assets until there is an immediate need to install and energize them.  
28           Instead, it is essential that Oncor maintain a working reserve quantity to



1 meet unexpected failures or emergency needs in order to maintain system  
2 power quality.

3 Q. HOW DOES ONCOR'S PRACTICE OF MAINTAINING A WORKING  
4 RESERVE OF DISTRIBUTION TRANSFORMERS AND CAPACITORS  
5 IMPACT CUSTOMER RELIABILITY?

6 A. At the end of 2022, there were over one million distribution transformers,  
7 approximately 7,500 regulators, and approximately 89,000 capacitors  
8 installed on Oncor's system. Failures of these types of distribution  
9 equipment occur for many reasons, but are often elevated during storms  
10 and extreme weather events. By maintaining an adequate working reserve  
11 of this equipment, Oncor is able to both serve new customers in a timely  
12 fashion and quickly address equipment failures sustained during storms or  
13 extreme weather, thereby reducing delay in fulfillment of new service  
14 requests and duration of customer outages in order to maintain the reliable  
15 operation of the system.

16 Q. HOW DOES ONCOR'S PRACTICE OF MAINTAINING A WORKING  
17 RESERVE OF DISTRIBUTION TRANSFORMERS AND CAPACITORS  
18 IMPACT ONCOR'S ABILITY TO SERVE NEW CUSTOMERS?

19 A. Oncor continues to experience load and customer growth within its service  
20 territory. By purchasing certain quantities of these distribution assets in  
21 advance and holding them in working reserve, Oncor is able to ensure that  
22 an adequate supply is readily available to satisfy new customer growth as  
23 it arises, rather than having to wait weeks or months to receive the assets  
24 from the manufacturer.

25 Q. HOW DOES ONCOR DETERMINE THE APPROPRIATE QUANTITIES OF  
26 DISTRIBUTION TRANSFORMERS THAT IT NEEDS TO MAINTAIN IN  
27 WORKING RESERVE?

28 A. There are approximately 1,300 unique styles of distribution transformers on  
29 Oncor's distribution system. However, to minimize the amount of working

1 reserve needed, Oncor currently uses about 479 unique transformer styles  
2 specifically designed to serve as compatible working reserve to back stand  
3 all transformer styles in the event of equipment failure, as well as to provide  
4 service to new customers. In any given year, 40% to 60% of Oncor's total  
5 demand for transformers is reactive in nature and varies based on style of  
6 the transformer and seasonal adverse weather conditions. To provide for  
7 the possibility of a significant increase in demand due to weather, working  
8 reserve target levels are increased for the summer and winter seasons and  
9 then reduced during the spring and fall. In addition to the unpredictable  
10 Texas weather, Oncor must also consider national demand and account for  
11 limited production capacity of the four major distribution transformer  
12 manufacturers in North America to respond immediately to a national  
13 weather demand event.

14 In addition, Oncor has to ensure adequate working reserves are  
15 available at all of its field service centers. Field service center stock levels  
16 are maintained based on open or pending construction projects, historical  
17 and seasonal reactive demand, and the number of similar units installed  
18 within a given service area. Oncor may assign additional units to a  
19 particular field service center based on its distance from the central  
20 warehouse as well as supply replenishment shipping schedules. Working  
21 reserve at the field service centers are based on one week of historical  
22 reactive demand for single-phase transformers in addition to all  
23 transformers required for pending open projects within two weeks of each  
24 project's scheduled construction start date. Oncor resupplies the field  
25 service centers weekly from the equipment central warehouse. As with the  
26 central warehouse reserve levels, the Company seasonally adjusts reserve  
27 levels at the field service centers based on the higher probability of  
28 significant weather events during the summer and winter seasons.

1 Q. DOES ONCOR TAKE ANY STEPS TO MODERATE ITS WORKING  
2 RESERVE LEVELS?

3 A. Yes. The Company minimizes the working reserve at the central  
4 warehouse by leveraging the use of vendor-owned inventory that annually  
5 represents approximately 35% of anticipated system needs and up to 50%  
6 during heightened seasonal demand. In addition, Oncor administers an  
7 equipment refurbishment and repair program that accounts for  
8 approximately 11% of Oncor's annual demand. Oncor designs the working  
9 reserve at the central warehouse to provide sufficient replenishment to the  
10 field service locations weekly and provide for heightened seasonal  
11 demands during the summer and winter seasons. The Company has  
12 established the central warehouse standard target working reserve at one  
13 to two weeks' demand to provide for unplanned manufacturing and shipping  
14 delays. Seasonally, this buffer is increased by one to two weeks during the  
15 summer and winter seasons. If a heightened demand is not experienced,  
16 then Oncor utilizes the elevated reserve stock during the spring and fall  
17 seasons. In addition to maintaining working reserves at field locations, the  
18 central warehouse also maintains the primary working reserve for three-  
19 phase transformers, regulating transformers, and specialized transformers,  
20 such as large distribution auto transformers, as well as distribution network  
21 and underground vault transformers. We centralize these higher value units  
22 to reduce overall cost, and they are only supplied to the field service  
23 locations for scheduled upcoming projects, for reactive demand, or for  
24 holding in a working reserve status to back stand critical customer  
25 installations such as hospitals and first responders.

26 Q. HOW DOES ONCOR DETERMINE THE APPROPRIATE QUANTITIES OF  
27 CAPACITORS THAT IT NEEDS TO MAINTAIN IN WORKING RESERVE?

28 A. For the majority of Oncor's capacitor needs, Oncor determines its working  
29 reserve requirements based on annually planned power factor correction

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1 and system improvement project requirements, as well as historically  
2 projected quantities needed to serve new customers and to meet reactive  
3 capacitor demand. For all approved, planned projects, the Company orders  
4 capacitors for a first quarter delivery date in order to provide adequate time  
5 for installation before summer peak demand. For serving new customers  
6 and meeting reactive capacitor requirements, monthly forecasts are  
7 provided to the manufacturer in order to reduce lead times. Oncor typically  
8 maintains three to six weeks' demand of capacitor products at its central  
9 warehouse to provide for maintenance and reactive demand throughout the  
10 year. Oncor replenishes field service centers through the central  
11 warehouse as needed to maintain existing capacitor requirements in their  
12 respective service areas.

13 Q. ARE ONCOR'S INVESTMENTS IN DISTRIBUTION TRANSFORMERS  
14 AND CAPACITORS HELD IN WORKING RESERVE AS OF THE END OF  
15 2022 USED AND USEFUL IN THE COMPANY'S PROVISION OF  
16 ELECTRIC SERVICE?

17 A. Yes, for all the reasons discussed above, these assets are essential to  
18 Oncor being able to provide adequate and continuous service to the public  
19 and, therefore, the associated investment is used and useful.

20 **V. INVESTMENTS IN CAPITAL SPARE SUBSTATION TRANSFORMERS**  
21 **AND MOBILE SUBSTATION EQUIPMENT**

22 Q. DOES ONCOR INCLUDE IN ITS NET DISTRIBUTION INVESTMENT THE  
23 COSTS OF "SPARE" SUBSTATION POWER TRANSFORMERS?

24 A. Yes. Substation power transformers are large, high-cost assets with long-  
25 lead purchase times. The average lead time for purchasing a substation  
26 spare transformer ranges from 12 to 18 months. Therefore, Oncor must  
27 maintain a fleet of spare transformers at all times in order to supply  
28 emergency needs that may arise.

1 Q. HOW DOES ONCOR'S PRACTICE OF MAINTAINING A WORKING  
2 RESERVE OF CAPITAL SPARE SUBSTATION TRANSFORMERS  
3 IMPACT CUSTOMER RELIABILITY?

4 A. At the end of 2022, there were approximately 1,700 distribution substation  
5 power transformers placed throughout Oncor's system. By maintaining a  
6 fleet of capital spare substation transformers, Oncor is able to provide  
7 continuous operations during times of equipment failure or loss of the use  
8 of the substation transformers on the Oncor system. Through the use of its  
9 capital spare substation transformers, Oncor is also able to relieve installed  
10 mobile substations so that they can be used for the minimum duration  
11 possible and can be made available for the next emergency that may arise.  
12 By maintaining an adequate working reserve of this equipment, Oncor is  
13 able to quickly address equipment failures, thereby reducing customer  
14 outage durations and ensuring the reliable operation of the system.

15 Q. ARE ALL SUBSTATION POWER TRANSFORMERS THE SAME?

16 A. No. There are many different types of transformers utilized across the  
17 Oncor system with various winding configurations, high-side voltages, low-  
18 side voltages, and Mega Volt Amp or "MVA" ratings.

19 Q. IS IT CONSIDERED GOOD UTILITY PRACTICE TO MAINTAIN CAPITAL  
20 SPARE SUBSTATION POWER TRANSFORMERS?

21 A. Yes, it is.

22 Q. HOW MANY CAPITAL SPARE SUBSTATION POWER TRANSFORMERS  
23 DOES ONCOR CURRENTLY HAVE?

24 A. Currently, Oncor has 79 capital spare transformers.

25 Q. HOW DOES ONCOR DETERMINE THE REQUIRED NUMBER OF  
26 CAPITAL SPARE SUBSTATION POWER TRANSFORMERS IT NEEDS  
27 TO PURCHASE IN A GIVEN YEAR?

28 A. Oncor bases this determination on the characteristics of its existing  
29 substation power transformer fleet (taking into consideration voltages and

1 winding configurations), transformer failure rates, the average life span of  
2 transformers, and manufacturing lead times. Oncor continuously monitors  
3 and actively manages its level of capital spare transformers to ensure  
4 availability of these critical assets. Oncor procures additional capital spares  
5 as its current units are consumed or as equipment failure rates or  
6 manufacturing lead times fluctuate.

7 Q. ARE SUBSTATION POWER TRANSFORMERS PERIODICALLY  
8 REPLACED ACCORDING TO A CERTAIN TIME SCHEDULE?

9 A. No. The Company does not replace substation power transformers on a  
10 set schedule. Instead, Oncor replaces them when required due to  
11 increased loading, system changes, or failures.

12 Q. WHAT ARE ONCOR'S SOURCES FOR OBTAINING CAPITAL SPARE  
13 SUBSTATION POWER TRANSFORMERS?

14 A. Oncor purchases new substation power transformers from the  
15 manufacturer to be kept as capital spare units. Additionally, used  
16 transformers that are being replaced on Oncor's system due to various  
17 reasons (such as the need for a higher rating or system changes) may be  
18 retained by Oncor to be used as capital spare units.

19 Q. ARE ONCOR'S INVESTMENTS IN CAPITAL SPARE SUBSTATION  
20 POWER TRANSFORMERS AS OF THE END OF 2022 USED AND  
21 USEFUL IN THE COMPANY'S PROVISION OF ELECTRIC SERVICE?

22 A. Yes, for all the reasons discussed above, having capital spare substation  
23 power transformers on hand was essential to Oncor being able to provide  
24 adequate and continuous service to the public and, therefore, the  
25 associated investment is used and useful.

26 Q. DOES ONCOR INCLUDE IN ITS NET DISTRIBUTION INVESTMENT THE  
27 COSTS OF MOBILE SUBSTATION EQUIPMENT?

28 A. Yes. Because substation power transformers are large, high-cost assets  
29 with long-lead purchase times, Oncor must maintain mobile substation

1 transformers and associated equipment to respond to emergency needs of  
2 the system. Mobile transformers are not permanent parts of the system,  
3 but they play a vital role in maintaining the reliability of the system. The  
4 availability of mobile transformers and related equipment enables Oncor to  
5 quickly restore distribution service when there is equipment failure, when  
6 there are forced outages for repairs, or in emergency situations due to  
7 natural disasters or storm response. When mobile transformers and  
8 equipment are used to restore electrical service, they function as part of the  
9 grid system and allow for the system to be reliably served during emergency  
10 events or critical outage situations.

11 Q. IS IT CONSIDERED GOOD UTILITY PRACTICE TO MAINTAIN MOBILE  
12 SUBSTATION EQUIPMENT?

13 A. Yes, it is.

14 Q. ARE ONCOR'S INVESTMENTS IN MOBILE SUBSTATION EQUIPMENT  
15 AS OF THE END OF 2022 USED AND USEFUL IN THE COMPANY'S  
16 PROVISION OF ELECTRIC SERVICE?

17 A. Yes, for all the reasons discussed above, having mobile transformers and  
18 associated equipment on hand was essential to Oncor being able to provide  
19 adequate and continuous service to the public and, therefore, the  
20 associated investment is used and useful.

21 **VI. INVESTMENTS IN SUBSTATION LAND PURCHASES**

22 Q. HAS ONCOR INCLUDED AS PART OF ITS NET DISTRIBUTION  
23 INVESTED CAPITAL THE COSTS OF LAND PURCHASES RELATED TO  
24 SUBSTATION CONSTRUCTION FOR SUBSTATIONS THAT WERE NOT  
25 ENERGIZED DURING THE DCRF UPDATE PERIOD?

26 A. Yes. As with the working reserve meters, transformers, regulators, and  
27 capacitors discussed in my testimony above, there are operational and  
28 reliability reasons why Oncor must purchase land for substations in  
29 advance, even if the substations on the land may not be immediately built

1 and energized. Population or industry growth commonly drive the need for  
2 substations. Oncor must, therefore, be strategic in its planning and  
3 preparing for needed substations by acquiring property in areas where land  
4 acquisition or other development would preclude later purchase of real  
5 estate for substation purposes. Once the proper location for a substation is  
6 determined, Oncor needs to be able to begin the process of purchasing the  
7 land because (1) real estate purchases and permitting take a considerable  
8 amount of time, (2) expanded development can eliminate Oncor's ability to  
9 acquire suitable property, and (3) properties must meet certain physical  
10 requirements to be eligible for substation placement.

11 Q. ONCE ONCOR PLANS A NEW SUBSTATION, HOW LONG DOES IT  
12 TYPICALLY TAKE ONCOR TO ACQUIRE THE LAND FOR THE  
13 SUBSTATION?

14 A. The length of time it takes to acquire land for a substation varies based on  
15 the land's location, size, and ownership, as well as the applicable permitting  
16 requirements. Typically, this process takes between 18 and 24 months.  
17 Even before beginning the land acquisition process, however, Oncor  
18 attempts to work proactively with the relevant cities and landowners to  
19 identify the appropriate location for the substation. Additionally, if a  
20 transmission line extension is required, then additional land rights or  
21 landowner consent and an amendment to Oncor's certificate of  
22 convenience and necessity may be required.

23 Q. ARE THERE BENEFITS TO ACQUIRING SUBSTATION LAND IN  
24 ADVANCE OF THE PLANNED SUBSTATION IN-SERVICE DATE?

25 A. Yes. Acquiring the substation land in advance provides Oncor with certainty  
26 of land availability so that Oncor can be assured that it will be able to meet  
27 customer and reliability needs. It also affords flexibility in construction  
28 timing. It should be noted, however, that various factors can impact the  
29 planned timing for the substation energization date, such as issues with



1 identifying suitable sites, zoning, and permitting activities, floodplain  
2 mitigation, and timing of load additions.

3 Q. CAN ANY PROPERTY BE USED AS A SUBSTATION SITE?

4 A. No. There are numerous physical requirements for substation development  
5 that make only a certain few properties compatible with substation  
6 construction. For example, substations generally cannot have sub-surface  
7 facilities, so the property must be free of pipelines and other encumbrances  
8 or easements. A new substation property must also be located out of the  
9 floodplain and have quality road access for equipment transport and service  
10 restoration purposes. All of these physical requirements demonstrate why  
11 Oncor must be able to acquire substation property in advance of  
12 construction while the property is still available, rather than waiting until just  
13 prior to starting physical construction.

14 Q. ONCE ONCOR ACQUIRES THE SUBSTATION LAND, HOW SOON  
15 DOES CONSTRUCTION OF THE SUBSTATION TYPICALLY BEGIN?

16 A. While the construction timeline varies among substations, construction of  
17 the substation typically begins within 18 months of the substation land  
18 acquisition.

19 Q. HOW DOES ONCOR DETERMINE WHETHER SUBSTATION LAND  
20 SHOULD BE PLACED IN ELECTRIC PLANT IN SERVICE ("EPIS") OR  
21 ELECTRIC PLANT HELD FOR FUTURE USE ("EPHFU")?

22 A. As explained in more detail in Company witness Mr. Ledbetter's direct  
23 testimony, land purchased for the purpose of substation construction is  
24 placed into EPIS if substation design, site preparation, and construction of  
25 facilities are planned to begin in the near future. Otherwise, if Oncor does  
26 not intend for site design, preparation, and construction to begin until a later  
27 date, then the substation land is placed into EPHFU. This is the same  
28 treatment that Oncor applies to easements acquired for transmission line  
29 projects.

1 Q. ARE ONCOR'S SUBSTATION LAND PURCHASES AS OF THE END OF  
2 2022 USED AND USEFUL IN THE COMPANY'S PROVISION OF  
3 ELECTRIC SERVICE?

4 A. Yes, for all the reasons discussed above, the land that was purchased for  
5 use in the near future was essential to Oncor being able to provide adequate  
6 and continuous service to the public and, therefore, the associated  
7 investment is used and useful.

8 **VII. INVESTMENT IN MOBILE GENERATION**

9 Q. PLEASE DESCRIBE THE EMERGENCY MOBILE GENERATION  
10 FACILITIES AUTHORIZED BY PURA § 39.918.

11 A. PURA § 39.918 authorizes transmission and distribution utilities like Oncor  
12 to lease and operate mobile generation facilities that provide temporary  
13 emergency electric energy to aid in restoring power to the utility's  
14 distribution customers during a widespread power outage in which (a) the  
15 independent system operator has ordered the utility to shed load, or (b) the  
16 utility's distribution facilities are not being fully served by the bulk power  
17 system under normal operations.

18 Q. HAS ONCOR LEASED AND OPERATED ANY MOBILE GENERATION  
19 FACILITIES AS AUTHORIZED UNDER PURA § 39.918?

20 A. Yes. In December 2021, Oncor began leasing and operating seven mobile  
21 generation units totaling 7.5 MW of capacity. In 2022, Oncor began leasing  
22 and operating eight more mobile generation units for a combined total of 15  
23 mobile generators and approximately 11 MW of capacity.

24 Q. HAS THE COMMISSION ALREADY REVIEWED AND ADDRESSED ANY  
25 OF THE MOBILE GENERATION FACILITIES LEASED AND OPERATED  
26 BY ONCOR?

27 A. Yes. In Oncor's most recent base-rate case, Docket No. 53601, the  
28 Commission reviewed the facilities leased by Oncor during the 2021 test  
29 year in that case and determined that Oncor used a competitive bidding

1 practice to the extent reasonably practicable and that the amount in  
2 invested capital spend to lease the units was prudently incurred, used and  
3 useful, and reasonable and necessary.<sup>1</sup>

4 Q. PLEASE SUMMARIZE THE PROCESS THAT ONCOR USED TO LEASE  
5 THE 15 MOBILE GENERATION UNITS LEASED AS OF YEAR-END 2022.

6 A. Oncor issued a request for proposals ("RFP") to nine suppliers and  
7 received eight responses. Three of those entities were existing suppliers for  
8 Oncor, and the other six were selected through our market knowledge and  
9 research of suppliers. Using that knowledge and research, the  
10 professionals in our Strategic Sourcing and Procurement Department  
11 determined that these particular suppliers may have the capability to meet  
12 the requirements of the RFP. We then evaluated the competitive bids based  
13 on best availability, pricing, and maintenance terms provided by the  
14 competing suppliers and selected PowerSecure, Inc. to supply the facilities.  
15 Due to the high demand for mobile generators in the marketplace at that  
16 time, Oncor leveraged its existing Master Lease Agreement ("MLA") with  
17 Citizens Bank to facilitate the leasing of those facilities. The use of an  
18 existing MLA, which has been used by Oncor to lease fleet vehicles, allowed  
19 Oncor to streamline negotiations with generator manufacturers and use  
20 commercial terms consistent with its other leasing arrangements. Under the  
21 MLA, Citizens Bank purchased the equipment selected in the competitive  
22 RFP processes and leased it to Oncor. As noted above, in Docket No.  
23 53601, the Commission determined that through this process, Oncor used  
24 a competitive bidding practice to the extent reasonably practicable. After  
25 undergoing this RFP process and evaluating the bids received from multiple  
26 suppliers, Oncor is confident that the costs it has incurred to lease the

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<sup>1</sup> See *Application of Oncor Electric Delivery Company LLC for Authority to Change Rates*, Docket No. 53601, Order at 3-5 and 25-27 (Apr. 6, 2023).

1 mobile generation facilities – which are described in detail in Company  
 2 witness Mr. Ledbetter’s direct testimony – are reasonable and necessary.

3 Q. HOW DID ONCOR DETERMINE THE APPROPRIATE NUMBER AND  
 4 SIZE OF THE MOBILE GENERATION UNITS IT IS LEASING?

5 A. Based on our analysis of historical outage data for outages of at least eight  
 6 hours in length and our experience with the geographic diversity of the  
 7 Oncor distribution system, we determined the necessary number of units  
 8 and the size for those units.

9 Q. HOW DOES ONCOR PLAN TO USE THE LEASED MOBILE  
 10 GENERATION UNITS TO SUPPORT RESTORATION OF POWER?

11 A. Oncor plans to continue using its mobile generation units as an electrical  
 12 backup in the event of a widespread outage meeting the criteria of PURA  
 13 § 39.918(a). Oncor has strategically positioned these mobile generation  
 14 units across its service territory. The primary uses for these mobile  
 15 generation units include the following: critical infrastructure facilities,  
 16 hospitals, health care facilities, law enforcement facilities, fire stations,  
 17 water or waste water facilities.

18 Q. HAS ONCOR FILED AN EMERGENCY OPERATIONS PLAN (“EOP”)  
 19 WITH THE COMMISSION THAT INCLUDES A DETAILED PLAN ON THE  
 20 USE OF THE MOBILE GENERATION FACILITIES?

21 A. Yes. In April 2022, Oncor filed an EOP with the Commission in Project No.  
 22 53385 that included a detailed plan on the Company’s use of the mobile  
 23 generation facilities.<sup>2</sup>

24 Q. HOW MUCH TIME IS NEEDED TO PREPARE THE MOBILE  
 25 GENERATION FACILITIES FOR USE AND DEPLOYMENT IN THE  
 26 EVENT OF A WIDESPREAD OUTAGE?

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<sup>2</sup> See *Project to Submit Emergency Operations Plans and Related Documents Under 16 TAC § 25.53*, Project No. 53385, Oncor Electric Delivery Company LLC’s Public Utility Commission of Texas Emergency Operations Plan at Annex G (Apr. 13, 2022).

- 1 A. The generators are staged strategically across our service territory and are  
2 kept ready to deploy at any time. If there is a strong chance of storms, we  
3 stage truck drivers and crews near the locations of our generators. When  
4 this is done, we can generally have the generator on the road to the location  
5 within a few hours. Once onsite, there are many factors to consider on  
6 connecting to the customer, but on average, we should be connected within  
7 a couple of hours.
- 8 Q. PLEASE GENERALLY DESCRIBE ONCOR'S STRATEGY FOR  
9 DEPLOYING ITS MOBILE GENERATION FACILITIES.
- 10 A. In the event of widespread outages that are expected to last at least eight  
11 hours, Oncor's strategy is to deploy mobile generation facilities to individual  
12 premises on a case-by-case basis in accordance with the criteria set forth  
13 in PURA § 39.918.
- 14 Q. HAS ONCOR DEPLOYED ITS LEASED MOBILE GENERATION  
15 FACILITIES?
- 16 A. Yes. One example is at The Faith Community Hospital in Jacksboro, Texas.  
17 This hospital was served by a single distribution feeder and had no alternate  
18 feed available. The tornado that hit Jacksboro on March 21, 2022 resulted  
19 in the destruction of 34 poles, 32 crossarms, and four transformers on that  
20 single distribution feeder that served the Faith Community Hospital. As a  
21 result, the hospital could not be served by the distribution system, and by  
22 extension, the bulk power system, under normal operations. Oncor  
23 deployed a mobile generator to ensure this critical facility had power.
- 24 Q. PLEASE DESCRIBE ADDITIONAL INSTANCES WHEN ONCOR  
25 DEPLOYED THE MOBILE GENERATION FACILITIES.
- 26 A. In addition to the Faith Community Hospital in Jacksboro, Texas, below lists  
27 in the instances where we have deployed mobile generation.
- 28 • Paris Water Pump Station - November 2022. Connected a 1-1250 KW  
29 unit due to poles down in the area during a widespread outage.

- 1 • Taylor Water Pump Station - December 2022. Connected 1-625KW unit  
2 due to extreme low temperatures causing widespread outage and  
3 loading issues.
- 4 • Elgin Water Pump Station - February 2023. Connected 1-625KW unit  
5 and 1- 326KW unit in conjunction with our transition trailer to provide  
6 power to two different premises at the same facility. This was due to ice  
7 causing widespread outages.
- 8 • Taylor Water Pump Station - February 2023. Connected 1-625KW unit  
9 due to ice and extreme temperatures causing widespread outages and  
10 voltage issues.

11 As with the deployment at the hospital in Jacksboro, in each of these  
12 instances, the mobile generation facilities were deployed when the criteria  
13 described in PURA § 39.918(b)(1) were met. The costs incurred to deploy  
14 and operate the facilities during each of the instances described in my  
15 testimony were prudent, reasonable, and necessary.

16 Q. FOR EACH DEPLOYMENT OF THE MOBILE GENERATION FACILITIES,  
17 DID ONCOR OPERATE THE MOBILE GENERATION FACILITIES IN  
18 ISOLATION FROM THE BULK POWER SYSTEM IN ACCORDANCE  
19 WITH PURA § 39.918?

20 A. Yes, each deployment of the mobile generation facilities operates in  
21 isolation from the bulk power system in accordance with PURA § 39.918.  
22 Oncor currently only deploys mobile generators at distribution secondary  
23 voltages (277/480, 120/240, and 120/208). Oncor looks at each  
24 deployment on a case-by-case basis to ensure the mobile generators are  
25 operating in isolation from the bulk power system. Personnel in the field  
26 work with Oncor's Distribution Operation Centers to ensure that devices are  
27 isolated with no possibility of backfeed onto the Oncor system. Field  
28 personnel verify that the generators are operating in isolation by visually

1 inspecting the devices (e.g., by confirming that disconnects are open,  
2 primary jumpers are cut, or fuse cutouts are open).

3 Q. FOR EACH DEPLOYMENT OF THE MOBILE GENERATION FACILITIES,  
4 DID ONCOR EXCLUDE THE MOBILE GENERATION FACILITIES FROM  
5 ERCOT'S LOCATIONAL MARGINAL PRICING CALCULATIONS,  
6 PRICING, AND RELIABILITY NEEDS IN ACCORDANCE WITH PURA  
7 § 39.918?

8 A. Yes. This provision requires that the leased mobile generation facilities  
9 "may not be included in independent system operator: (A) locational  
10 marginal pricing calculations; (B) pricing; or (C) reliability models."  
11 Generally, Oncor submits only usage and system information to ERCOT,  
12 but not cost information. Oncor is not required to submit, and will not be  
13 submitting, any information concerning the cost of the mobile generator  
14 leases to ERCOT. In addition, because the usage information for the period  
15 the mobile generation is connected to a customer will not be reported to  
16 ERCOT, it will not be possible for ERCOT to include that usage information  
17 or the costs of mobile generation in its pricing calculations or its reliability  
18 models.

19 Q. DURING EACH DEPLOYMENT OF THE MOBILE GENERATION  
20 FACILITIES, DID ONCOR EXCLUDE RETAIL CUSTOMER USAGE  
21 DURING THE OPERATION OF THE MOBILE GENERATION FACILITIES  
22 IN ACCORDANCE WITH PURA § 39.918?

23 A. Yes. When Oncor operates a mobile generation facility to power a  
24 customer's premise consistent with the requirements of PURA § 39.918, the  
25 current billing meter is removed and replaced with a temporary meter so  
26 that no consumption is measured on the customer's existing meter while  
27 the mobile generation facility is connected to the customer's premise, and  
28 a temporary disconnect order is issued. After the event is complete, Oncor  
29 removes the temporary meter, reinstalls the customer's original meter, and

1 removes the temporary disconnect order. Oncor's Revenue Management  
2 and Advanced Metering Systems Operations groups analyze the usage  
3 information for the affected premise to ensure that no usage is posted  
4 against the customer's account while the mobile generation facility is  
5 connected to the customer's premise.

6 Q. HAS ONCOR SOLD ELECTRIC ENERGY OR ANCILLARY SERVICES  
7 FROM ANY OF THE LEASED MOBILE GENERATION FACILITIES AT  
8 ANY TIME?

9 A. No. Oncor has never sold electric energy or ancillary services from any of  
10 the mobile generation facilities it leases and operates.

11 Q. HAS ONCOR'S PROCUREMENT AND DEPLOYMENT OF MOBILE  
12 GENERATION FACILITIES BEEN REASONABLE UNDER THE  
13 CIRCUMSTANCES AND BASED ON THE INFORMATION AVAILABLE AT  
14 THE TIME?

15 A. Yes, the investment has been reasonable and the deployment of the  
16 facilities has complied with PURA § 39.918.

17 **VIII. INVESTMENT IN WAAM**

18 Q. WHAT WAS THE SCOPE OF WORK FOR THE DISTRIBUTION ASSET  
19 AND WORK MANAGEMENT PROJECT THAT WAS PLACED IN  
20 SERVICE ON NOVEMBER 14, 2022?

21 A. The Distribution Asset and Work Management ("WaAM") project scope of  
22 work included the transition to a new work management information system,  
23 the transition to a new asset information system, integration with Oncor's  
24 other technology systems or applications including the new Advanced  
25 Enterprise Geographic Information System ("AEGIS") Distribution graphic  
26 design and geographic information system, and consolidation of the various  
27 supporting applications.



- 1 Q. PLEASE PROVIDE MORE DETAIL ON THE NEW WAAM APPLICATION  
2 THAT REPLACED THE EXISTING DISTRIBUTION WORK AND ASSET  
3 MANAGEMENT FUNCTIONALITY.
- 4 A. The WaAM project included the replacement of the non-graphical Work  
5 Management Information System software application, the Distribution  
6 Equipment Information System, and various supporting applications. The  
7 WaAM project also included integration with the new AEGIS graphical  
8 design and geographical information system software application. The  
9 WaAM project also includes the transition to a modern technology platform  
10 based on a distributed computing environment. The new technology  
11 manages individual or crew time, distribution assets, resources, and crews  
12 associated with the construction, maintenance, and some operation tasks,  
13 with a focus on providing safe and reliable Distribution electric service to its  
14 customers. As a complement to the AEGIS functions, WaAM supports a  
15 work request process as part of the overall engineering graphic design  
16 function for overhead, underground, streetlight, and service line assets.  
17 Finally, the functionality is used to evaluate performance of the completed  
18 tasks to further improve individual or crew productivity while optimizing its  
19 engineering and supply chain processes.
- 20 Q. WHEN WERE THE WAAM PROJECT INVESTMENTS PLACED IN  
21 SERVICE?
- 22 A. The WaAM project investments were placed in service on November 14,  
23 2022. Oncor retired the existing technology investment replaced by the  
24 WaAM project in the same year.
- 25 Q. WHAT IS THE TOTAL COST OF THE WAAM PROJECT THAT WAS  
26 PLACED IN SERVICE ON NOVEMBER 14, 2022?
- 27 A. The total amount of capital investment in the WaAM project placed in  
28 service is approximately \$84 million.

1 Q. IS THE CAPITAL INVESTMENT ASSOCIATED WITH THE WAAM  
2 PROJECT USED AND USEFUL IN ONCOR'S PROVISION OF SERVICE  
3 TO THE PUBLIC?

4 A. Yes. As previously described, the technology is being used to improve upon  
5 data quality of Oncor processes and functional requirements by external  
6 entities while enhancing the customer and workforce experience by  
7 providing better visibility and use of available data. Therefore, the  
8 associated investment in WaAM is used and useful.

9 **IX. SUMMARY AND CONCLUSION**

10 Q. PLEASE SUMMARIZE YOUR DIRECT TESTIMONY.

11 A. In summary, due to engineering concerns and manufacturing constraints,  
12 and in order to provide reliable service to the public, Oncor must purchase  
13 in advance certain distribution assets to be held in working reserve so that  
14 an adequate supply is available to satisfy new customer growth, to make  
15 necessary unit replacements, and to supply emergency needs as they arise.  
16 Due to long-lead purchase times, the potential for significant weather  
17 events, and seasonal variations in manufacturer supply and shipping times,  
18 Oncor cannot wait to purchase the assets until Oncor has an immediate  
19 need to install and energize them. Accordingly, these working reserve  
20 assets are used and useful. For similar reasons, Oncor's capital spare  
21 transformer and mobile substation equipment investments are also  
22 necessary, used, and useful. Additionally, there are operational and  
23 reliability reasons why Oncor must purchase land for substations in  
24 advance, even if the substations on the land may not be immediately  
25 constructed and energized. Oncor has also prudently invested in mobile  
26 generation facilities and has leased and deployed the facilities reasonably  
27 and in accordance with PURA § 39.918. Finally, Oncor has prudently  
28 invested in its WaAM tool, which is used and useful in providing service to

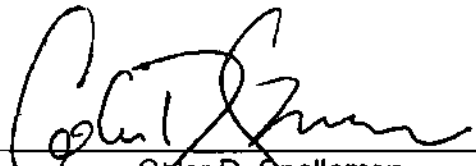
- 1 customers. For all of these reasons, the Commission should allow these  
2 investments in Oncor's net distribution invested capital.  
3 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?  
4 A. Yes, it does.

**AFFIDAVIT**

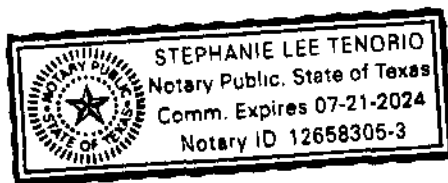
STATE OF TEXAS       §  
                                  §  
COUNTY OF DALLAS   §

**BEFORE ME**, the undersigned authority, on this day personally appeared Coler D. Snelleman, who, having been placed under oath by me, did depose as follows:

My name is Coler D. Snelleman. I am of legal age and a resident of the State of Texas. The Application in this proceeding complies with 16 TAC § 25.243 and Oncor's tariffs. The Application and the foregoing direct testimony offered by me are true and correct, and the opinions stated therein are, to the best of my knowledge and belief, accurate, true and correct.

  
Coler D. Snelleman

**SUBSCRIBED AND SWORN TO BEFORE ME** by the said Coler D. Snelleman this 26 day of June, 2023.



  
Notary Public, State of Texas

PUC Docket No. \_\_\_\_\_

**Snelleman - Direct  
Oncor Electric Delivery  
2023 DCRF Application and Mobile Generation Update**

Schedule A : Summary of Distribution Cost of Service (DCOS)  
Sponsor: W. Alan Ledbetter

Summary of Distribution Cost of Service Oncor Electric Delivery Company LLC Update Period 01/01/2022 - 12/31/2022							
Line No	Description	Total Docket No. 53601* (1)	Exclusions for DCRF (2)	Total Docket No. 53601 After Exclusions * (3) = (1)+(2)	Annual Change (4)	Revenue Requirement (5) = (1) + (4)	Reference Schedule
1	Operation & Maintenance , including (A&G)	2,538,516,451	(2,538,516,451)	-	-	2,538,516,451	Docket No. 53601
2	Depreciation and Amortization	543,360,740	(32,269,230)	511,091,510	45,963,781	589,324,520	E-1
3	Taxes Other Than Income Taxes	458,954,797	(315,657,939)	143,296,858	16,297,292	475,252,089	E-2
4	Federal Income Tax	68,683,857	(14,477,773)	54,206,084	12,067,166	80,751,023	E-3
5	Return on Rate Base	641,314,733	(87,781,292)	553,533,441	73,183,093	714,497,826	B
6	Total Revenue Requirement	4,250,830,577	(2,988,702,685)	1,262,127,892	147,511,332	4,398,341,909	
7	Other Revenues	(70,078,084)	70,078,084	-	-	(70,078,084)	Docket No. 53601
8	Total	4,180,752,493	(2,918,624,601)	\$1,262,127,892	147,511,332	\$4,328,263,825	

\* Docket No. 53601 DCRF baseline filed in Docket No. 54817

Schedule B - Summary of Distribution Rate Base  
Sponsor: W. Alan Ledbetter

Summary of Distribution Rate Base Oncor Electric Delivery Company LLC Update Period 01/01/2022 - 12/31/2022							
Line No	Description	Balance per Docket No. 53601* (1)	Exclusions for DCRF (2)	Balance per Docket No. 53601* With DCRF Exclusions (3) = (1) + (2)	Balance as of end of update period (4)	Increase in Rate Base & Return (5) = (4) - (3)	Reference Schedules
1	Direct Assigned						
2	Original Plant In Service	16,698,730,341	-	16,698,730,341	17,906,220,504	1,207,490,164	B-1
3	(Accumulated Depreciation)	(6,534,021,048)	-	(6,534,021,048)	(6,609,171,390)	(75,150,342)	B-5
4	Net Plant In Service	10,164,709,293	0	10,164,709,293	11,297,049,115	1,132,339,822	
5	Allocated Plant Accounts - Net *	262,412,268	(262,412,268)	-	262,412,268	-	Docket No. 53601
6	CWIP *	-	-	-	-	-	Docket No. 53601
7	Working Capital *	(12,898,686)	12,898,686	-	(12,898,686)	-	Docket No. 53601
8	Plant Held for Future Use *	1,745,979	(1,745,979)	-	1,745,979	-	Docket No. 53601
9	Regulatory Assets excl. plant-related excess deferred FIT	903,452,153	(903,452,153)	-	903,452,153	-	Docket No. 53601
10	Other *	176,276,176	(176,276,176)	-	176,276,176	-	Docket No. 53601
10a	Accumulated Deferred FIT (ADFIT) - Non Plant *	5,949,630	(5,949,630)	-	5,949,630	-	Docket No. 53601
10b	Excess ADFIT - Non Plant *	(16,918,089)	16,918,089	-	(16,918,089)	-	Docket No. 53601
10c	Acc. ADFIT & Excess ADFIT -Non Plant *	(10,968,459)	10,968,459	-	(10,968,459)	-	Docket No. 53601
10d	Accumulated Deferred FIT (ADFIT) - Plant Related	(1,260,470,111)	-	(1,260,470,111)	(1,320,680,409)	(60,210,298)	E-3.10
10e	Protected Excess ADFIT - Plant Related	(491,578,167)	-	(491,578,167)	(479,497,233)	12,080,934	E-3.10
10f	Unprotected Excess ADFIT - Plant Related	(88,849,874)	-	(88,849,874)	(71,562,696)	16,287,178	E-3.10
10g	Acc. ADFIT & Excess ADFIT -Plant Related	(1,840,898,152)	-	(1,840,898,152)	(1,872,740,339)	(31,842,187)	B-7, L 24, Col 5, E-3.10
11	Subtotal	(783,290,989)	(1,057,607,163)	(1,840,898,152)	(815,133,176)	(31,842,187)	
12	Total Rate Base	9,649,830,572	(1,320,019,431)	8,329,811,141	10,744,328,207	1,100,497,635	
13	Rate of Return *	6.65%	6.65%	6.65%	6.65%	6.65%	Docket No. 53601
14	Return on Rate Base	\$641,314,733	(\$87,781,292)	\$553,533,441	\$714,497,826	\$73,189,099	

\* Docket No. 53601 DCRF baseline filed in Docket No. 54817

Non-tax related regulatory assets	912,045,627	Line 8
Tax-related regulatory assets/(liabilities)	(597,346,130)	(details below)
Total - Regulatory assets/(liabilities)	314,699,497	
Materials & Supplies	74,796,188	
Prepayments	104,576,673	
Other Rate Base Items	(3,086,884)	
Other	176,276,176	Line 9
ADFIT plant-related liability	(1,260,470,111)	Line 10d
ADFIT non-plant related liability	(211,674,829)	Excluded in DCRF baseline, line 10a
ADFIT non-plant related asset	217,618,981	Excluded in DCRF baseline, line 10a
Total - ADFIT	(1,254,525,959)	
Protected excess deferred taxes	(491,578,167)	Excess deferred taxes - plant-related**, line 10e
Non-protected excess deferred taxes		
Oncor plant-related basis differences	(97,762,907)	Excess deferred taxes - plant-related**, line 10f
Oncor non-plant temporary differences	(16,918,089)	Excluded in DCRF baseline, line 10b
Oncor excess reserve plant-related	8,913,033	Excess deferred taxes - plant-related**, line 10f
Total - Tax-related regulatory assets/(liabilities)	(597,346,130)	Excess deferred federal income taxes
Plant-related excess deferred taxes	(590,428,041)	Excess deferred taxes - plant-related**
Non-tax related regulatory assets	912,045,627	
Oncor non-plant temporary differences	(16,918,089)	
Reg assets excl. plant-related excess DFITs	695,127,538	

Schedule B-1: Distribution Plant - Gross  
Sponsor: W. Alan Ledbetter

Distribution Plant - Gross Onor Electric Delivery Company LLC Update Period 01/01/2022 - 12/31/2022							
Line No	Account No	Description	Reference Schedule Worksheet	Balance in Docket No 53601 * (1)	Additions since Docket No 53601 (2)	Retirements/Adjustments since Docket No 53601 (3)	Balance @ end of period (4) = (1)+(2)-(3)
<b>Distribution Intangible Plant</b>							
1a	A309	Intangible Plant - 3 Year Life	WP/Sch B-1/1	214,682	-	(0)	214,682
1b	A303	Intangible Plant - 5 Year Life	WP/Sch B-1/1	18,575,398	7,225,501	(1,278,499)	24,522,399
1c	A303	Intangible Plant - 8 Year Life	WP/Sch B-1/1	172,777,634	51,997,126	(9,220,503)	215,494,257
1d	A303	Intangible Plant - 15 Year Life	WP/Sch B-1/1	481,308,731	98,029,355	(10,897,998)	568,440,088
1e	A303	Intangible Plant - AMS 7 Year Life	WP/Sch B-1/1	146,167,816	-	(44,752,040)	101,415,776
1f	A303	<b>Subtotal Intangible Plant</b>		<b>819,044,261</b>	<b>157,191,982</b>	<b>(66,149,040)</b>	<b>910,087,202</b>
<b>Transmission Plant</b>							
2	A352	Structures and Improvements	WP/Sch B-1/1	-	-	-	-
3a	A353	Station Equipment	WP/Sch B-1/1	330,462,584	22,797,001	7,732,652	360,992,297
3b	A359	Station Equipment - SVC	WP/Sch B-1/1	51,398,067	3,479	3,273	51,404,818
4		<b>Sub-Total</b>		<b>381,860,651</b>	<b>22,800,480</b>	<b>7,735,925</b>	<b>412,397,055</b>
<b>Distribution Plant</b>							
5a	A360	Land and Land Rights (substation)	WP/Sched B 1/1	4,537,807	471,123	70,050	5,078,980
5b	A360	Land and Land Rights	WP/Sched B 1/1	18,508,221	460,823	(248,202)	18,720,842
6	A361	Structures and Improvements	WP/Sched B 1/1	137,062,053	25,122,037	407,133	162,591,222
7	A362	Station Equipment	WP/Sched B 1/1	1,757,053,883	160,347,116	(14,032,133)	1,903,368,866
8	A363	Storage Battery Equipment	WP/Sched B-1/1	-	-	-	-
9	A364	Poles, Towers & Fixtures	WP/Sched B-1/1	2,678,358,261	216,395,402	(31,453,218)	2,863,300,445
10	A365	O H Conductors & Devices	WP/Sched B-1/1	1,675,410,858	202,822,337	(19,298,821)	1,858,934,375
11	A366	Underground Conducts	WP/Sched B-1/1	1,082,118,478	109,918,329	(1,248,555)	1,190,788,252
12	A367	U G Conductors & Devices	WP/Sched B 1/1	2,553,927,528	217,506,305	(19,273,345)	2,752,160,488
13	A368	Line Transformers	WP/Sched B-1/1	2,493,077,762	194,010,891	(34,815,703)	2,652,272,951
14	A369	Services	WP/Sched B-1/1	1,652,238,990	106,479,718	(7,601,306)	1,751,116,802
15a	A370	Meters	WP/Sched B-1/1	199,955,073	28,344,611	(4,443,654)	223,856,030
15b	A370	Meters (IDR)	WP/Sched B-1/1	162,996,844	12,281,633	(2,438,289)	172,840,188
15c	A370	Meters (AMR/AMS)	WP/Sched B 1/1	211,195,565	-	(25,544,599)	185,650,967
16	A371	Install on Customer Prem	WP/Sched B-1/1	54,631,097	75,176	(277,803)	54,428,470
17	A372	Leased Prop on Cust Premises		-	-	-	-
18	A373	Street Lights	WP/Sched B-1/1	437,403,826	35,136,483	(8,808,214)	463,732,095
19	A374	Land Owned in Fee	WP/Sched B-1/1	71,344,821	6,108,216	(687,788)	76,765,249
20		<b>Sub-Total</b>		<b>15,189,821,069</b>	<b>1,315,479,601</b>	<b>(169,694,449)</b>	<b>16,335,606,221</b>
<b>General Plant</b>							
21a	A391	Office furniture and equipment - computer equipment	WP/Sch B-1/1	219,019,754	18,177,775	(81,773,210)	155,424,319
21b	A391	Office furniture and equipment - computer equipment (AMS)	WP/Sch B 1/1	16,170,086	0	-	16,170,086
22a	A397	Communication Equipment (amortized)	WP/Sch B-1/1	24,799,846	5,483,497	(2,565,072)	27,718,270
22b	A397	Communication Equipment Dkt 53601 disallowance (amortized)	WP/Sch B-1/1	(35,767,189)	(2,048,728)	0	(37,815,916)
22c	A397	Communication Equipment (depreciated)	WP/Sch B-1/1	42,233,358	3,231,664	(336,053)	45,128,969
22d	A397	Communication Equipment (routers)	WP/Sch B-1/1	41,548,504	0	(44,207)	41,504,298
23		<b>Sub-Total</b>		<b>308,004,360</b>	<b>24,844,208</b>	<b>(84,718,542)</b>	<b>248,130,026</b>
24		<b>TOTAL</b>	Schedule B	<b>16,598,730,341</b>	<b>1,520,316,270</b>	<b>(312,826,107)</b>	<b>17,906,220,504</b>

Not subject to update in DCRF

A388	Land Owned in Fee	25,876,197
A389	Land and Land Rights	82,104
A390	Structures and Improvements	179,909,716
A391	Office Furniture and Equipment- excluding computer equipment	11,853,979
A392	Tools, Shop and Garage Equipment	12,716,429
A393	Stores Equipment	3,803,355
A394	Tools, Shop and Garage Equipment	28,551,509
A395	Laboratory Equipment	21,471,308
A396	Power Operated Equipment	3,557,216
A398	Miscellaneous Equipment	6,347,719
	<b>Subtotal</b>	<b>299,758,532</b>
	<b>Total Plant</b>	<b>16,998,499,873</b>

\* Docket No 53601 DCRF baseline filed in Docket No 54817

Schedule B-5: Distribution Accumulated Depreciation  
Sponsor: W. Alan Ledbetter

Distribution Accumulated Depreciation Oncor Electric Delivery Company LLC Update Period 01/01/2022 - 12/31/2022							
Line No	Account No	Description	Reference Schedule Worksheet	Balance In Docket No. 53601* (1)	Depreciation Expense/ Adjustments since Docket No. 53601 (2)	Retirements since Docket No. 53601 (3)	Balance @ end of period (4) = (1) + (2) - (3)
		<b>Accumulated Depreciation</b>					
		<b>Distribution Intangible Plant</b>					
1a	A303	Intangible Plant - 3 Year Life	WP/Sched B-5/1	94,990	46,923	0	141,913
1b	A303	Intangible Plant - 5 Year Life	WP/Sched B-5/1	4,056,315	6,829,018	(3,173,186)	7,712,148
1c	A303	Intangible Plant - 8 Year Life	WP/Sched B-5/1	71,612,442	16,891,706	(6,194,523)	82,309,625
1d	A303	Intangible Plant - 15 Year Life	WP/Sched B-5/1	183,556,545	34,188,643	(12,203,739)	155,541,449
1e	A303	Intangible Plant - AMS 7 Year Life	WP/Sched B-5/1	144,110,138	1,083,338	(44,752,040)	100,441,436
1f	A303	Subtotal Intangible Plant		353,430,430	59,039,630	(66,323,489)	346,146,571
		<b>Transmission Plant</b>					
2	A352	Structures and Improvements	WP/Sched B-5/1	0	0	0	0
3a	A353	Station Equipment	WP/Sched B-5/1	75,028,805	18,213,120	(4,533,104)	88,708,821
3b	A359	Station Equipment - SVC	WP/Sched B-5/1	22,141,672	3,291,589	0	25,433,271
4		Sub-Total		97,170,477	21,504,719	(4,533,104)	114,142,092
		<b>Distribution Plant</b>					
5a	A360	Land and Land Rights (substation)	WP/Sched B-5/1	928,028	(5,067)	0	922,950
5b	A360	Land and Land Rights	WP/Sched B-5/1	8,767,327	121,083	(248,102)	8,640,207
6	A361	Structures and Improvements	WP/Sched B-5/1	41,745,978	1,990,105	(122,733)	43,613,350
7	A362	Station Equipment	WP/Sched B-5/1	463,683,929	20,128,802	(14,248,359)	469,564,372
8	A363	Storage Battery Equipment	WP/Sched B-5/1	0	0	0	0
9	A364	Poles, Towers & Fixtures	WP/Sched B-5/1	1,107,719,584	44,842,139	(31,453,218)	1,121,108,504
10	A365	O H Conductors & Devices	WP/Sched B-5/1	695,328,009	27,495,088	(19,307,449)	649,515,649
11	A366	Underground Conducts	WP/Sched B-5/1	452,193,524	33,340,271	(1,248,555)	484,285,240
12	A367	U G Conductors & Devices	WP/Sched B-5/1	578,041,306	68,348,114	(19,264,717)	627,124,703
13	A368	Line Transformers	WP/Sched B-5/1	743,686,984	37,441,955	(34,708,433)	746,420,516
14	A369	Services	WP/Sched B-5/1	1,097,314,113	31,686,002	(7,601,306)	1,121,398,809
15a	A370	Meters	WP/Sched B-5/1	25,049,410	10,468,857	(4,443,654)	31,074,613
15b	A370	Meters (IDR)	WP/Sched B-5/1	89,799,408	6,061,116	(2,438,283)	93,422,234
15c	A370	Meters (AMR/AMS)	WP/Sched B-5/1	221,391,040	1,800,132	(25,544,589)	197,646,573
16	A371	Install on Customer Prem	WP/Sched B-5/2	75,069,053	541,288	(277,803)	75,332,537
17	A372	Leased Prop on Cust Premises		0	0	0	0
18	A373	Street Lights	WP/Sched B-5/1	372,032,657	15,352,264	(8,808,214)	378,576,706
19	A374	Land Owned in Fee	WP/Sched B-5/1	0	0	0	0
20		Sub-Total		5,912,750,349	289,612,148	(169,715,532)	6,042,646,964
		<b>General Plant</b>					
21a	A391	Office furniture and equipment - computer equipment	WP/Sched B-5/1	107,929,875	7,798,235	(81,773,210)	33,954,900
21b	A391	Office furniture and equipment - computer equipment (AMS)	WP/Sched B-5/1	12,803,166	3,023,946	0	15,827,112
22a	A397	Communication Equipment (amortized)	WP/Sched B-5/1	4,370,243	6,300,584	(2,741,743)	7,929,084
22b	A397	Communication Equipment (depreciated)	WP/Sched B-5/1	4,018,003	4,022,434	(318,025)	7,722,412
22c	A397	Communication Equipment (routers)	WP/Sched B-5/2	41,548,504	(702,054)	(44,207)	40,802,244
23		Sub-Total		170,669,791	20,443,145	(84,877,174)	106,235,762
24		TOTAL	Schedule B	\$6,534,021,048	\$400,599,841	(\$325,449,289)	\$6,609,171,390

Balances shown as credits on DCRF Sch B

Not subject to update in DCRF

A388	Land Owned in Fee	-
A389	Land and Land Rights	13,719
A390	Structures and Improvements	15,143,311
A391	Office Furniture and Equipment - excluding computer equipment	783,998
A392	Tools, Shop and Garage Equipment	2,889,835
A393	Stores Equipment	756,988
A394	Tools, Shop and Garage Equipment	11,021,309
A395	Laboratory Equipment	3,404,154
A396	Power Operated Equipment	2,662,611
A398	Miscellaneous Equipment	681,340
	Subtotal	37,357,264
	Total accumulated depreciation	\$6,571,378,312

\* Docket No. 53601 DCRF baseline filed in Docket No. 54817

Note for Column (2) Docket No. 53601 O&amp;A rates were effective May 1, 2023 with Docket No. 53601 base rates. Docket No. 46957 O&amp;A rates were effective during 2022 pending the outcome of Docket No. 53601

Note 1 See WP/Schedule B-5/2 for proforma retirements consistent with depreciation and amortization rates approved in the Docket No. 53601 order on rehearing



**Schedule B-7: DIC-Related Accumulated Deferred Federal Income Taxes (ADFIT)**  
**Sponsor: Bonnie L. Chutter and W. Alan Ledbetter**

Schedule B-7  
Page 1 of 2

Distribution Accumulated Deferred Federal Income Taxes Oncor Electric Delivery Company LLC Update Period 01/01/2022 - 12/31/2022							
Line No.	Account No.	Description	Gross Incremental Distribution Investment since Declet No. 53601 (1)	Accumulated Depreciation since Declet No. 53601 (2)	Net Plant Additions since Declet No. 53601 (3) = (1) - (2)	Change in ADFIT since Declet No. 53601 (5)	Reference Schedule
1		Incremental Distribution Plant in Service Note: This line is intended to represent the increase in total distribution plant, not just the DIC (see related worksheet)	1,260,351,457	93,666,224	1,166,685,233	(32,628,004)	Sched E-3 10, Column 9
			Gross Plant Additions since Declet No. 53601 (1)	Depreciation Expense since Declet No. 53601 (2)	Net Plant Additions since Declet No. 53601 (3) = (1) - (2)	% of Net Distribution Plant Additions by PERC Asset (4)	Net Deferred Income Tax Change since Declet No. 53601 (5)
2a	A303	Distribution Intangible Plant - Intangible Plant - 3 Year Life	0	46,923	(46,923)	0.00%	1,370
2b	A303	Intangible Plant - 5 Year Life	5,947,002	3,655,893	2,291,109	0.20%	(64,429)
2c	A303	Intangible Plant - 8 Year Life	42,718,623	10,897,183	32,019,440	2.74%	(900,409)
2d	A303	Intangible Plant - 15 Year Life	87,131,357	21,984,904	65,146,453	5.58%	(1,831,964)
2e	A303	Intangible Plant - AMS 7 Year Life	(44,752,040)	(43,668,702)	(1,083,338)	-0.09%	30,464
2f	A303	Subtotal Intangible Plant	91,042,942	(7,283,859)	98,326,801	8.43%	(2,765,018)
3	A352	Transmission Plant - Structures and Improvements	-	-	-	0.00%	-
4a	A353	Station Equipment	30,529,653	13,980,016	16,049,637	1.44%	(473,834)
4b	A353	Station Equipment - SVC	6,752	3,291,599	(3,284,847)	-0.28%	92,372
5		Sub-Total	30,536,405	16,971,615	13,564,790	1.16%	(381,451)
6	A360	Distribution Plant - Land and Land Rights (substation)	544,173	(5,067)	549,240	0.05%	(15,361)
7	A360	Land and Land Rights	212,621	(127,119)	339,740	0.03%	(9,554)
8	A361	Structures and Improvements	25,578,169	1,867,372	23,661,797	2.03%	(665,385)
9	A362	Station Equipment	146,914,983	5,880,493	140,434,540	12.04%	(3,949,117)
10	A363	Storage Battery Equipment	-	-	-	0.00%	-
11	A364	Totes, Towers & Fixtures	184,942,184	13,388,921	171,553,263	14.70%	(4,824,198)
12	A365	O/H Conductors & Devices	182,523,516	8,187,640	175,335,877	15.03%	(4,930,567)
13	A366	Underground Conduits	108,669,714	32,091,715	76,578,058	6.56%	(2,153,429)
14	A367	U/G Conductors & Devices	198,232,960	49,083,392	149,149,568	12.78%	(4,194,190)
15	A366	Line Transformers	159,195,188	2,738,522	156,456,666	13.41%	(4,898,811)
16	A369	Services	98,877,812	24,084,696	74,793,116	6.41%	(2,102,235)
17a	A370	Meters	23,900,997	6,025,203	17,875,794	1.53%	(502,679)
17b	A370	Meters (108)	9,843,364	3,622,827	6,220,537	0.53%	(174,925)
17c	A370	Meters (AMA/AMS)	(25,544,599)	(23,744,467)	(1,800,132)	-0.15%	50,621
18	A371	Install on Customer Prem	(202,827)	263,494	(466,112)	-0.04%	13,307
19	A372	Leased Prop on Cust Premises	-	-	-	0.00%	-
20	A373	Street Lights	26,378,289	5,544,049	19,734,219	1.70%	(556,346)
21	A374	Road Cured in Fee	5,420,427	-	5,420,427	0.46%	(152,426)
22		Sub-Total	1,145,785,152	129,896,815	1,015,888,537	87.07%	(28,567,495)
23a	A391	General Plant - Office furniture and equipment - computer equipment	(63,505,435)	(73,974,975)	10,379,540	0.89%	(391,840)
23b	A391	Office furniture and equipment - computer equipment (AMS)	-	3,023,946	(3,023,946)	-0.26%	85,035
24a	A397	Communication Equipment (amortized)	2,916,424	3,558,841	(642,417)	-0.05%	18,009
24b	A397	Communication Equipment (41 53601 disallowance (amortized)	(2,048,728)	-	(2,048,728)	-0.18%	57,612
24c	A397	Communication Equipment (depreciated)	2,895,610	3,704,419	(808,809)	-0.07%	22,744
24d	A397	Communication Equipment (routers)	(44,207)	(746,260)	702,054	0.06%	(39,742)
25		Sub-Total	(58,874,535)	(64,434,029)	4,559,495	0.39%	(128,732)
26		TOTAL ADFIT Allocated to DIC				87.06%	(31,842,187)

Plant Totals for DCRF 1,207,490,164 75,150,342 1,132,339,822 965,817

Calculation of Increase in Total Distribution Plant

Per WP&E Worksheet: WP/Sch E 3 7/3 Gross Plant 14,258,851,330 Accum Depr 6,665,045,536 Net Plant 7,593,806,794 NP DCR Sch E DIST NP net in DCRF 13,559,461,383 36,345,412

53601 Direct Distribution Accounts 16,698,730,341 6,524,021,048 10,164,709,299 WP/Schedule A/1 Page 2

53601 General Plant Distr Accounts 299,768,532 37,357,264 262,411,268 WP/Schedule A/1 Page 2

53601 Distribution Plant 16,998,498,873 6,571,378,312 10,427,121,561

Net Plant Increase (Total Distr) 1,260,351,457 92,666,224 1,166,685,233

Distribution Accumulated Deferred Federal Income Taxes			This worksheet shows, consistent with the Schedule B-7 DCF-RFP instructions, the percentage of net plant additions for each PERC account relative to the total net distribution plant in service from Decket No. S3802.					Schedule B-7 Page 2 of 2
Onor Electric Delivery Company LLC Update Period 01/01/2022 - 12/31/2023								
Line No	Account No	Description	Gross Distribution Investment from Decket No. S3802 (1)	Accumulated Depreciation from Decket No. S3802 (2)	Net Plant Balance from Decket No. S3802 (3) = (1) - (2)	Net Plant Additions from Decket No. S3802 (4)	Percentage Change since Decket No. S3802 (5) = (4) / (3)	Reference Schedule
1		Total Net Distribution Plant	18,698,790,542	8,584,021,048	10,114,769,493	1,137,339,822	11.14%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
		Distribution Intangible Plant						
2a	A303	Intangible Plant - 3 Year Life	214,682	84,990	119,692	(46,923)	-39.20%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
2b	A303	Intangible Plant - 5 Year Life	18,575,398	4,056,315	14,519,082	2,281,189	15.74%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
2c	A305	Intangible Plant - 8 Year Life	172,777,434	71,612,442	101,165,191	32,019,440	31.65%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
2d	A305	Intangible Plant - 15 Year Life	481,306,731	188,556,545	292,750,186	65,146,433	22.23%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
2e	A305	Intangible Plant - AMS 7 Year Life	146,167,816	546,110,158	2,057,679	(1,089,358)	-52.85%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
2e	A305	Subtotal Intangible Plant	615,046,261	353,430,430	485,613,830	98,926,801	21.12%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
		Transmission Plant						
3	A352	Structures and Improvements					N/A	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
4a	A353	Station Equipment	330,462,544	75,028,805	255,433,739	16,849,837	6.60%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
4b	A355	Station Equipment - SVC	51,394,067	22,341,672	29,052,395	(5,284,847)	-18.22%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
5		Sub-Total	381,856,611	97,370,477	284,486,134	11,564,990	4.06%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
		Distribution Plant						
6	A360	Land and Land Rights (substation)	4,597,807	928,018	3,669,789	546,240	14.93%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
7	A360	Land and Land Rights	16,508,221	8,767,927	7,740,294	519,740	6.71%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
8	A341	Structures and Improvements	137,062,053	41,745,974	95,316,079	23,961,797	25.14%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
9	A362	Station Equipment	1,757,055,483	463,685,929	1,293,369,554	140,434,340	10.86%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
10	A363	Storage Battery Equipment					N/A	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
11	A364	Poles, Towers & Fixtures	2,678,558,261	1,107,719,584	1,570,838,677	171,555,163	10.92%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
12	A365	O.H. Conductors & Devices	1,675,410,858	835,328,009	840,082,849	175,355,877	20.88%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
13	A366	Underground Conductors	1,082,118,478	452,185,524	629,932,954	76,578,058	12.16%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
14	A367	U.G. Conductors & Devices	2,553,827,528	578,043,306	1,975,784,222	149,149,563	7.55%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
15	A368	Line Transformers	2,433,077,742	743,646,994	1,689,430,748	156,461,666	9.26%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
16	A369	Services	1,652,234,990	1,087,314,113	564,920,877	74,783,116	13.24%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
17a	A370	Meters	199,955,073	25,048,410	174,906,664	17,875,754	10.22%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
17b	A370	Meters (IDR)	162,996,844	89,799,408	73,197,436	6,220,517	8.50%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
17c	A370	Meters (AMR/AMS)	316,195,545	221,891,040	94,304,505	(1,800,132)	-1.89%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
18	A371	Install on Customer Prem	54,831,097	75,068,053	(20,236,956)	(486,112)	-2.38%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
19	A372	Leased Prop on Cust Premises					N/A	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
20	A373	Street Lights	437,403,826	372,032,657	65,371,169	19,784,218	30.26%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
21	A374	Land Owned in Fee	71,344,821		71,344,821	5,420,427	7.60%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
22		Sub-Total	15,185,811,069	5,912,750,349	9,273,060,720	1,015,086,537	10.95%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
		General Plant						
23a	A391	Office furniture and equipment - computer equipment	218,015,754	107,929,875	110,085,879	10,379,540	9.34%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
23b	A391	Office furniture and equipment - computer equipment (AMS)	16,170,086	12,803,146	3,366,940	(3,023,946)	-89.81%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
24a	A397	Communication Equipment (amortized)	24,799,846	4,370,243	20,429,603	(640,417)	-3.13%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
24b	A397	Communication Equipment (D1 S3802 disallowance (amortized))	(35,767,189)		(35,767,189)	(2,048,728)	5.72%	B-1 Col 1, B-7 Page 1 Col 3
24c	A397	Communication Equipment (depreciated)	42,233,358	4,018,003	38,215,355	(808,808)	-2.12%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
24d	A397	Communication Equipment (routers)	41,548,504	41,548,504		702,054	N/A	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3
		Sub-Total	308,004,360	170,668,791	137,335,569	4,559,695	3.32%	B-1 Col 1, B-5 Col 1, B-7 Page 1 Col 3

Schedule E-1: Distribution Depreciation Expense  
Sponsor: W. Alan Ledbetter

Distribution Depreciation Expense Oncor Electric Delivery Company LLC Change in Depreciation Expense Update Period 01/01/2022 - 12/31/2022										
Line No	Account No	Description	Reference Schedule Worksheet	Depreciation Expense in Docket No. S3601* (1)	Gross Plant Balance as of 12/31/2021 Per D-53601 (2)	Gross Plant Balance at 12/31/2022 Including Requested Additions (3)	Increase in Gross Plant Balance (Requested Additions) (4) = (3) - (2)	Depreciation rate approved in Docket No. S3601 (5)	Additional Depreciation Expense on Gross Plant Additions (6) = (4) * (5)	Total Depreciation Expense (7) = (1) + (6)
<b>Depreciation Expense</b>										
<b>Distribution Intangible Plant</b>										
1a	A303	Intangible Plant - 3 Year Life		67946.79	214,682	214,682	0	31.65%	0	67,947
1b	A303	Intangible Plant - 5 Year Life	B-1	3,562,363	18,373,398	24,522,399	5,947,002	19.18%	1,140,508	4,702,871
1c	A303	Intangible Plant - 8 Year Life	B-1	19,462,154	172,777,659	215,494,257	42,716,623	11.26%	4,811,719	24,273,879
1d	A303	Intangible Plant - 15 Year Life	B-1	31,098,479	481,308,731	568,440,088	87,131,357	6.48%	5,629,760	26,728,288
1e	A303	Intangible Plant - AMS 7 Year Life	B-1	1,083,338	146,167,816	101,415,776	(44,752,040)	Amortized	0	1,083,338
1f	A303	Subtotal Intangible Plant		55,274,281	819,044,261	910,087,202	91,042,942		11,581,987	66,856,268
<b>Transmission Plant</b>										
2	A352	Structures and improvements	B-1	0	0	0	0	2.65%	0	0
3a	A353	Station Equipment	B-1	7,081,159	330,462,584	380,992,237	30,529,653	2.15%	656,888	7,737,547
3b	A353	Station Equipment - SVC	B-1	1,908,257	51,398,067	51,404,818	6,752	3.71%	251	1,908,508
4		Sub-Total		8,989,416	381,860,651	412,397,055	30,536,405		656,639	9,646,055
<b>Distribution Plant</b>										
5a	A360	Land and Land Rights (substation)	B-1	62,774	4,537,807	5,078,980	541,173	1.38%	7,486	70,260
5b	A360	Land and Land Rights	B-1	229,983	18,508,221	18,720,842	212,621	1.24%	2,642	232,625
6	A361	Structures and Improvements	B-1	2,856,984	137,062,053	162,591,222	25,529,169	2.08%	532,142	3,389,126
7	A362	Station Equipment	B-1	36,635,077	1,757,053,883	1,903,368,866	146,314,983	2.09%	3,054,773	39,689,850
8	A363	Storage Battery Equipment	B-1	0	0	0	0		0	0
9	A364	Poles, Towers & fixtures	B-1	95,063,646	2,678,358,261	2,863,300,445	184,941,184	3.55%	6,564,200	101,627,846
10	A365	O.H. Conductors & Devices	B-1	53,354,377	1,675,410,858	1,858,934,375	183,523,516	3.19%	5,844,407	59,198,784
11	A366	Underground Cables	B-1	13,578,854	1,082,118,478	1,190,788,232	108,669,754	2.18%	2,367,863	25,946,717
12	A367	U.G. Conductors & Devices	B-1	56,738,034	2,553,927,528	2,752,160,488	198,232,960	2.22%	4,403,787	61,139,821
13	A368	Line Transformers	B-1	56,703,640	2,493,077,762	2,657,272,951	159,195,188	2.27%	3,620,804	60,324,444
14	A369	Services	B-1	50,246,720	1,652,238,990	1,751,116,802	98,877,812	3.04%	3,007,002	53,253,722
15a	A370	Meters	B-1	10,466,010	199,955,073	223,856,030	23,900,957	5.23%	1,251,019	21,157,029
15b	A370	Meters (DRI)	B-1	6,129,285	162,996,844	172,840,188	9,843,344	4.13%	406,380	7,135,665
15c	A370	Meters (AMR/AMS)	B-1	0	211,195,565	185,650,967	(25,544,599)	NA	0	0
16	A371	Install on Customer Prem	B-1	2,390,143	54,631,097	54,428,470	(202,628)	4.38%	(8,865)	2,381,278
17	A372	Leased Prop on Cust. Premises	B-1	0	0	0	0	NA	0	0
18	A373	Street Lights	B-1	21,013,687	437,403,826	463,732,095	26,328,269	4.80%	1,264,859	22,278,546
19	A374	Land Owned in Fee	B-1	0	71,344,821	76,765,249	5,420,427	NA	0	5,420,427
20		Sub-Total		416,067,714	15,189,821,069	16,338,606,221	1,145,785,152		32,318,499	448,385,713
<b>General Plant</b>										
21a	A391	Office furniture and equipment - computer equipment (amortized)	B-1	21,359,371	219,019,754	155,424,319	(63,595,435)	14.29%	844,103	22,203,474
21b	A391	Office furniture and equipment - computer equipment (AMS)	B-1	2,314,705	16,170,086	16,170,086	0	Amortized	(693)	2,310,012
21c	A391	Office furniture and equipment - computer equipment (amortized - reserve imbalance)	B-1	5,726,722	0	0	0	8-yr amortization	0	5,726,722
22a	A397	Communication Equipment (amortized)	B-1	1,480,206	24,799,846	27,718,270	2,918,424	6.67%	367,678	1,847,885
22b	A397	Communication Equipment Dkt 53601 disallowance - amortization	B-1	(2,591,154)	(35,767,189)	(37,815,916)	(2,048,728)	6.67%	60,233	(2,521,061)
22c	A397	Communication Equipment (amortized - reserve imbalance)	B-1	491,503	0	0	0	8-yr amortization	0	491,503
22d	A397	Communication Equipment (amortized - reserve imbalance)	B-1	1,973,885	42,233,358	45,128,969	2,895,610	4.67%	135,334	2,109,219
22e	A397	Communication Equipment (depreciated)	B-1	0	41,548,504	41,501,258	(44,207)	NA	0	0
22f	A397	Communication Equipment (routers)	B-1	0	0	0	0		0	0
23		Sub-Total		30,760,598	308,004,380	248,130,026	(59,874,355)		1,406,656	32,167,254
24		Subtotal, Subject to DCRF Update	Schedule A	\$11,091,510	16,698,730,341	17,906,220,504	1,207,490,164		45,963,781	557,055,250
25	Various	GP Accounts Not Subject to Update	Docket S3601	32,269,230	0	0	0	NA	0	32,269,230
26		GRAND TOTAL	Schedule A	\$543,360,740	\$16,698,730,341	\$17,906,220,504	\$1,207,490,164		\$45,963,781	\$589,324,520

\* Docket No. S3601 DCRF baseline filed in Docket No. S4837

Note 1 Accounts with AMS assets have a specific annual amortization schedule, as approved in the Docket No. S3601 rate case. See WP/Schedule E-1/1

Note 2 Proforma Am-15 retirements at 12/31/2021 for computer equipment and communication equipment were recognized for D&A expense and therefore reduced the D&A expense approved in Docket No. S3601. These proforma retirements were not recognized in Docket No. S3601 invested capital for net plant (plant in service and the accumulated depreciation reserve). Reference General Plant reserve imbalance approved in Docket No. S3601. See WP/Schedule E-1/3. Related proforma retirements for 2021 and 2022 were included in net plant for the update period (retirements processed on the books in Q2 2023). See WP/Schedule E-5/2 for the proforma retirements

Note 3 Amortization of reserve imbalance approved in Docket No. S3601. Reference Docket No. S3601 order on rehearing, Finding of Fact No. 219 - the annualized depreciation increase includes recovery of the General Plant reserve imbalance of \$12.5 million per year based on an eight-year recovery period. See WP/Schedule E-1/3

## Schedule E-2: Distribution Taxes Other Than Federal Income Taxes

Sponsor: Bonnie L. Clutter

Distribution Taxes Other Than Federal Income Taxes Oncor Electric Delivery Company LLC Change in Other Taxes Update Period 01/01/2022 - 12/31/2022								
Line No	FERC Account	Account Description	Schedule / Workpaper Reference	Total Approved per Docket 53601* (1)	Exclusions for DCRF (2)	Total per Docket 53601 with DCRF Exclusions* (3) = (1) + (2)	Annual Increase (4)	Total Other Taxes (5) = (1) + (4)
	<b>Taxes Other Than Income Taxes:</b>							
1	408 2602	Ad Valorem Taxes	WP/Sched E-2/1	\$ 140,471,714	\$ (3,535,156)	\$ 136,936,558	15,254,614	\$ 155,726,328
2	408 1X,408 2X	Payroll Taxes		13,351,589	(13,351,589)	-	-	13,351,589
3	409 11,409 21	State Gross Margin (Franchise) Tax	WP/Sched E-2/2	22,048,617	(15,688,317)	6,360,300	1,042,678	23,091,295
4	408 2415	Other - Franchise Fees		283,082,877	(283,082,877)	-	-	283,082,877
5	<b>Total Taxes Other Than FIT Taxes</b>			\$ 458,954,797	\$ (315,657,939)	\$ 143,296,858	16,297,292	\$ 475,252,089

\* Docket No. 53601 DCRF baseline filed in Docket No. 54817

	<u>Restated Amounts</u>		<u>Exclusions</u>		
Ad Valorem Taxes	\$	140,471,714	\$	3,535,156	Schedule A, Rev Req & DISTREV 4,398,341,909
State Gross Margin Tax		22,048,617		15,688,317	Times 70% 70.00%
Subtotal	\$	162,520,331	\$	19,223,473	Times 0.75% 0.75%
				TGMT	23,091,295

Schedule E-3: Distribution Federal Income Taxes  
Sponsor: Bonnie L. Clutter

Distribution Federal Income Taxes Oncor Electric Delivery Company LLC Change in Federal Taxes Update Period 01/01/2022 - 12/31/2022							
Line No	Account Description	Reference Schedule	Amount per Docket 53601* (1)	Exclusions for DCRF (2)	Amount per 53601 with Exclusions* (3) = (1) - (2)	Interim Annual Change (4)	Total Federal Income Taxes (5) = (1) + (4)
1	<u>Federal Income Taxes</u>						
2							
3	Return on Rate Base	Schedule B	\$ 641,314,733	(\$87,781,292)	\$ 553,533,441	\$ 73,183,093	\$ 714,497,826
4							
5	Deductions:						
6	Synchronized Interest	WP/Sched E-3	243,410,284	(33,317,290)	210,092,993	27,787,565	271,197,849
7	ITC Amortization	Docket 53601	191,148		191,148		191,148
8	Amortization of Protected Excess DFIT	Docket 53601	7,583,060		7,583,060		7,583,060
9	Amortization of Non-protected Excess DFIT	Docket 53601	22,936,199		22,936,199		22,936,199
10	Amortization of Reserved Non-Ratable Net Excess	Docket 53601	(1,782,607)		(1,782,607)		(1,782,607)
11	Depletion	Docket 53601	-		-		-
12	Other	Docket 53601	361,612		361,612		361,612
13	Subtotal		272,699,696	(33,317,290)	239,382,406	27,787,565	300,487,261
14							
15	Additions:						
16	Depreciation Adjustment	Docket 53601	150,259		150,259		150,259
17	Other Permanent Additions	Docket 53601	(1,111,779)		(1,111,779)		(1,111,779)
18	Subtotal		(961,520)	0	(961,520)	0	(961,520)
19							
20							
21	Taxable Component of Return		367,653,517	(54,464,002)	313,189,515	45,395,528	413,049,045
22	Incremental Tax Factor (1/1 - 21)( 21)		26.582278%	26.582278%	26.582278%	26.582278%	
23	Federal Income Taxes Before Adjust.		97,730,682	(14,477,773)	83,252,909	12,067,166	109,797,848
24							
25	Tax Credits-Deduct						
26	ITC Amortization	Docket 53601	191,148		191,148		191,148
27	Amortization of Protected Excess ADFIT	Docket 53601	7,583,060		7,583,060		7,583,060
28	Amortization of Non-protected Excess ADFIT	Docket 53601	22,936,199		22,936,199		22,936,199
29	Amortization of Excess ADFIT Reserve	Docket 53601	(1,782,607)		(1,782,607)		(1,782,607)
30	R&D Tax Credit	Docket 53601	269,284		269,284		269,284
31	Add Depreciation Differences	Docket 53601	150,259		150,259		150,259
32							
33	TOTAL FEDERAL INCOME TAXES	Schedule A	68,683,857	(14,477,773)	54,206,084	12,067,166	80,751,023

\* Docket No. 53601 DCRF baseline filed in Docket No. 54817.

**Schedule E-3.7: Summary of Plant-Related Accumulated Deferred Federal Income Tax (ADFIT) Balances**  
**Sponsor: Bonnie L. Clutter**

Summary of ADFIT Balances Oncor Electric Delivery Company LLC Update Period 01/01/2022 - 12/31/2022							
Line No	Account Number	Description	Reference Schedule Worksheet	Company Total at period end (1)	Funct. Factor Name	Distribution Funct. Factor (2)	Distribution Total at period end (3) = (1) * (2)
1	282	Plant-Related (Net Plant Functionalization)	WP/Sched E-3.7/1	(2,197,307,719)	PLANT	54.384752%	(1,195,000,356)
2	282	Intangible Plant-Related (Intangible Func)	WP/Sched E-3.7/1	(167,330,630)	INTANG	76.200223%	(127,506,314)
3	254	Protected Excess ADFIT - Plant Related	WP/Sched E-3.7/2	(896,410,575)	DIRECT	53.449927%	(479,130,802)
4	254	Unprotected Excess ADFIT - Plant Related	WP/Sched E-3.7/2	(135,559,209)	DIRECT	53.163989%	(72,068,684)
<b>Total Distribution Plant-related ADFIT</b>			Schedule E-3.10	(3,396,608,133)	N/A	N/A	(1,873,706,156)

**Schedule E-3.10: Distribution Plant Accumulated Deferred Federal Income Tax (ADFIT) Changes**  
**Sponsor: Bonnie L. Clutter**

Distribution Plant ADFIT Changes Oncor Electric Delivery Company LLC Update Period 01/01/2022 - 12/31/2022						
Line No	Description	Reference Schedule Workpaper	Distribution Total in Docket No 53601* (1)	Distribution Total at period end (2)	Change in ADFIT (3) = (2) - (1)	Reference Schedule
1	Total Distribution Plant-related ADFIT & Excess	Schedule B-7	(1,840,898,152)	(1,873,706,156)	(32,808,004)	E-3.7, Column 3
2	Less Allocation per Schedule B-7	Schedule B-7	0	965,817	965,817	B-7, Column 5
3	Total DCRF Plant-Related ADFIT & Excess	Schedule B	(1,840,898,152)	(1,872,740,339)	(31,842,187)	B, Line 10b

97.06% B-7, L 26, Col 4

Accumulated Deferred FIT (ADFIT) - Plant Related	(1,260,470,111)	(1,322,506,670)	(62,036,559)
Protected Excess ADFIT - Plant Related	(491,578,167)	(479,130,802)	12,447,365
Unprotected Excess ADFIT - Plant Related	(88,849,874)	(72,068,684)	16,781,190
Total Distribution Plant-related ADFIT & Excess	(1,840,898,152)	(1,873,706,156)	(32,808,004)

Accumulated Deferred FIT (ADFIT) - Plant Related	(1,260,470,111)	(1,320,680,409)	(60,210,299)
Protected Excess ADFIT - Plant Related	(491,578,167)	(479,497,233)	12,080,934
Unprotected Excess ADFIT - Plant Related	(88,849,874)	(72,562,696)	16,287,178
Total DCRF Plant-Related ADFIT & Excess	(1,840,898,152)	(1,872,740,339)	(31,842,187)

**Schedule H: Summary of Historic Year Billing Determinants**  
**Sponsor: Matthew A. Troxle**

Summary of Historic Year Billing Determinants  
Oncor Electric Delivery Company LLC  
Update Period 01/01/2022 - 12/31/2022

LINE	DESCRIPTION	VOLT	Billing Unit Type (1)	Reference Schedule Workpaper	Billing units approved in Docket No. 53501 (2)	(Update period) Unadjusted Billing Units at Meter (3)	(Update period) Billing Unit Weather Adjustment (4)	(Update period) Adjusted Billing Units at Meter (5) = (3) + (4)	(Update period) YE Customer Adjustment (6)	(Update period) Adjusted Billing Units (7) = (5) + (6)	Change in Billing Units (8) = (7) - (2)	Percent Change (9) = (8) / (2)
1	Residential	Sec	kWh	WP/Schedule H	46,057,336,770	48,624,782,079	(2,963,925,079)	45,660,857,000	420,228,181	46,081,085,181	23,748,411	0.05%
2	Secondary 10 kW and Below	Sec	kWh	WP/Schedule H	1,879,492,852	1,896,225,579	(50,841,414)	1,845,384,165	(13,215,720)	1,832,168,445	(47,324,407)	-2.52%
3	Secondary Greater than 10 kW	Sec	kW	WP/Schedule H	154,748,884	155,804,536	(4,549,117)	151,255,419	1,538,756	152,794,175	(1,954,709)	-1.26%
4	Primary 10 kW and Below	Primary	kWh	WP/Schedule H	27,825,268	29,454,724	-	29,454,724	(30,246)	29,424,478	1,599,210	5.75%
5	Primary Greater than 10 kW	Primary	kW	WP/Schedule H	39,469,464	41,403,728	(197,986)	41,205,742	929,634	42,135,376	2,665,912	6.75%
6	Substation	Primary	kW	WP/Schedule H	12,298,888	12,725,453	-	12,725,453	127,260	12,852,713	553,825	4.50%
7	Transmission	Trans	kW	WP/Schedule H	43,125,273	48,267,483	-	48,267,483	749,674	49,017,157	5,891,884	13.66%
8	Lighting	Sec	kWh	WP/Schedule H	379,980,295	371,189,508	-	371,189,508	(40,981,128)	330,208,380	(49,771,915)	-13.10%
9												
10	Wholesale - Substation	Primary	kW	WP/Schedule H	1,579,356	1,397,409	-	1,397,409	-	1,397,409	(181,947)	-11.52%
11	Wholesale - Distribution Line	Primary	kW	WP/Schedule H	1,821,139	1,707,652	-	1,707,652	47,888	1,755,540	(65,599)	-3.60%



**Schedule J: Summary of DCRF**  
**Sponsor: Matthew A. Troxle**

Schedule J  
Page 1 of 2

Oncor Electric Delivery Company LLC  
Update Period 01/01/2022 - 12/31/2022

Rate Class	(1) DIC <sub>RC</sub>	(2) ROR <sub>AT</sub>	(3) = (1) * (2) Return	(4) DEPR <sub>RC-CLASS</sub>	(5) FIT <sub>RC-CLASS</sub>	(6) OT <sub>RC-CLASS</sub>	(7) = (3)+(4)+(5)+(6) DISTREV <sub>RC-CLASS</sub>	(8) = Sch H col (9) % GROWTH <sub>CLASS</sub>	(9) = (7)*(8) DISTREV*GROWTH
Residential	4,646,371,272	6.65%	308,983,690	274,295,782	30,351,815	78,290,078	691,921,364	0.05%	356,773
Sec < 10 kW	174,412,228	6.65%	11,598,413	15,562,920	1,013,903	3,667,176	31,842,413	-2.52%	(801,771)
Sec > 10 kW	2,912,609,894	6.65%	193,688,558	165,112,390	19,086,723	48,147,625	426,035,296	-1.26%	(5,381,459)
Pri < 10 kW	2,364,712	6.65%	157,253	286,717	8,913	48,033	500,917	5.75%	28,789
Pri > 10 kW	462,170,874	6.65%	30,734,363	26,652,599	2,966,194	7,416,115	67,769,271	6.75%	4,577,385
Pri > 10 kW Sub	44,353,261	6.65%	2,949,492	1,595,111	294,750	645,077	5,484,429	4.50%	246,967
Transmission	10,268,836	6.65%	682,878	717,537	33,895	180,448	1,614,759	13.66%	220,612
Lighting	42,119,566	6.65%	2,800,951	25,452,613	254,689	4,453,130	32,961,382	-13.10%	(4,317,464)
Wh Subst	5,311,757	6.65%	353,232	190,433	35,270	77,167	656,102	-11.52%	(75,585)
Wh DLS	23,828,741	6.65%	1,584,611	1,225,408	159,932	372,009	3,341,960	-3.60%	(120,380)
Total	8,323,811,141	6.65%	553,533,441	511,091,510	54,206,084	143,296,858	1,262,127,892		(5,266,133)

Note: See WP/Schedule J/1 for Rate Class Allocators Used in Columns 1, 4, 5, and 6

Schedule J: Summary of DCRF  
Sponsor: Matthew A. Troxle

Schedule J  
Page 2 of 2

Oncor Electric Delivery Company LLC  
Update Period 01/01/2022 - 12/31/2022

Rate Class	(10) TNETDISTPLT <sub>CLASS</sub>	(11)=(10)/Σ(10) ALLOCLASS	(12) DCRF Rev Req Increase, Sch A	(13) DISTREV*GROWTH	(14) = (12)-(13) DCRF Increase/ (Decrease)	(15) = (11)*(14) DCRF Increase/ (Decrease) By Class	(16) Sch H, Col 7 BDC <sub>CLASS</sub>	(17) = (15)/(16) DCRF Rates
Residential	5,673,965,021	55.8202%				85,280,746	46,081,085,181	0.001851
Sec < 10 kW	212,985,321	2.0953%				3,201,209	1,832,168,445	0.001747
Sec > 10 kW	3,556,764,126	34.9913%				53,458,824	152,794,175	0.349875
Pri < 10 kW	2,887,692	0.0284%				43,403	29,424,478	0.001475
Pri > 10 kW	564,384,811	5.5524%				8,482,808	42,135,376	0.201323
Pri > 10 kW Sub	54,162,450	0.5328%				814,072	12,852,713	0.063339
Transmission	12,539,897	0.1234%				188,477	49,017,157	0.003845
Lighting	51,434,750	0.5060%				773,074	330,208,380	0.002341
Wh Subst	6,486,508	0.0638%				97,493	1,397,409	0.069767
Wh DLS	29,098,717	0.2863%				437,359	1,755,540	0.249131
Total	10,164,709,293		147,511,332	(5,266,133)	152,777,465	152,777,465		



**ELECTRIC INVESTOR-OWNED UTILITIES**  
**(Transmission & Distribution Service Providers in ERCOT)**

**EARNINGS REPORT**

**OF**

**Oncor Electric Delivery Company LLC (including Oncor NTU)**

**TO THE**

**PUBLIC UTILITY COMMISSION OF TEXAS**

**FOR THE**

**12 Months Ending December 31, 2022**

Check one:

This is an original submission ☒ [ X ]  
This is a revised submission ☐ [ ]

Date of submission: May 15, 2023

**Oncor Electric Delivery Company LLC (including Oncor NTU)**  
**12 Months Ending December 31, 2022**

General Questions  
Page 1 of 2

**GENERAL QUESTIONS**

If additional space is required, please attach pages providing the requested information.

- 1 State the exact name of the utility.  
Oncor Electric Delivery Company LLC ("Oncor"), including Oncor Electric Delivery Company NTU LLC ("Oncor NTU")  
Pursuant to the Order in Docket No. 48929 Ordering Paragraph No. 17, Oncor must consolidate the North Texas Utility (Oncor NTU) with Oncor for the purposes of calculation and reporting of its earnings-monitoring report and for the purposes of compliance with finding of fact 56 of the final order in Docket No. 47675
- 2 State the date when the utility was originally organized  
November 16, 2001 - Oncor Electric Delivery Company LLC  
Originally June 28, 2006 as Sharyland Transmission Services, LP (name changed to Oncor Electric Delivery Company NTU LLC on May 16, 2019 upon acquisition by Oncor Electric Delivery Company LLC)
- 3 Report any change in name during the most recent year and state the effective date  
Not Applicable
- 4 State the name, title, phone number, email address, and office address of the officer of the utility to whom correspondence should be addressed concerning this report.  
  
W. Alan Ledbetter  
Vice President and Controller  
(214) 486-3265 William.Ledbetter@oncor.com  
1616 Woodall Rodgers Freeway  
Dallas, Texas 75202
- 4a State the name, title, phone number, email address, and office address of any other individual designated by the utility to answer questions regarding this report (optional)  
  
J. Michael Sherburne  
Vice President - Regulatory  
(214) 486-4881 Mike.Sherburne@oncor.com  
1616 Woodall Rodgers Freeway  
Dallas, Texas 75202
- 5 State the location of the office where the Company's accounts and records are kept  
  
Oncor Electric Delivery Company LLC  
1616 Woodall Rodgers Freeway  
Dallas, Texas 75202
- 6 State the name, address, phone number, and email address of the individual or firm, if other than a utility employee, preparing this report.  
  
Not applicable

**Oncor Electric Delivery Company LLC (including Oncor NTU)**  
**12 Months Ending December 31, 2022**

General Questions  
Page 2 of 2

7. Please indicate the filing status of the Company regarding federal income taxes, e.g., S-Corps, Corporations, Partnerships, Individuals, etc

As of November 5, 2008, Oncor Electric Delivery Company LLC is a partnership for federal income tax purposes. As such, it is no longer eligible to file as part of a consolidated income tax return. Since May 16, 2019, Oncor NTU's taxable income has been included in Oncor NTU Partnership LP's partnership return.

8. Please provide

a. The period-ending number of utility employees (total company): 4,632

- b. The period-ending number of Electric Points of Delivery

Total Company 3,896,232

Texas Jurisdictional 3,896,232

9. Will the Company have a rate proceeding pending before this commission on the due date of this Earnings Monitoring Report?

Yes or No ==>

Yes (Docket No. 53601)

10. IF THIS IS A REVISED REPORT, provide the schedule number, line number, and column designation where each change input data appears

SUMMARY OF REVENUES AND EXPENSES

Line	(1) Total Company	(2) Non-Regulated or Non-Electric or Other Adjustments*	(3) Total Electric (1)+(2)	(4) Allocation Percentage (5)/(3)	(5) Tx Jurisdictional Wholesale and Retail	(6) Wholesale Transmission Allocation Percentage**	(7) Wholesale Transmission***	(8) Retail T&D
1 TOTAL REVENUES								
2 Energy Delivery Revenues (Note 1)	\$4,170,962,310	\$0	\$4,170,962,310	100.00%	\$4,170,962,310	N/A	\$0	\$4,170,962,310
3 Miscellaneous Service Revenues	1,071,599,171	507,580,462	1,579,179,633	100.00%	1,579,179,633	N/A	\$1,521,748,442	\$57,431,191
4 Revenue Sub-total	\$5,242,561,481	\$507,580,462	\$5,750,141,943		\$5,750,141,943		\$1,521,748,442	\$4,228,393,501
5								
6 Total Revenues	\$5,242,561,481	\$507,580,462	\$5,750,141,943	100.00%	\$5,750,141,943		\$1,521,748,442	\$4,228,393,501
7								
8								
9 EXPENSES								
10								
11 Operations and Maintenance Expense (Note 2)	2,217,257,088	588,725,194	2,805,982,282	100.00%	2,805,982,282	7.51%	\$210,827,683	\$2,595,154,599
12 Amortization Expense (Note 3)	70,722,819	977,879	71,700,698	100.00%	71,700,698	24.04%	\$17,885,209	\$53,815,489
13 Depreciation Expense	832,337,101	2,462,407	834,799,508	100.00%	834,799,508	47.41%	\$396,312,676	\$438,486,832
14 Interest on REP/CR Deposits	106	0	106	100.00%	106	0.00%	\$0	\$106
15 Taxes Other Than Income Taxes	561,207,384	1,249,502	561,047,882	100.00%	561,047,882	23.54%	\$132,080,996	\$428,966,886
16 State Income Taxes	27,225,303	0	27,225,303	100.00%	27,225,303	19.06%	\$5,189,639	\$22,035,664
17 Federal Income Taxes (Note 4)	173,863,190	(26,639,540)	147,223,650	100.00%	147,223,650	60.22%	\$88,658,507	\$58,565,143
18 Deferred Expenses	0	0	0	0.00%	0	0.00%	\$0	\$0
19 Nonbypassable charges (Note 5)	0	0	0	0.00%	0	0.00%	\$0	\$0
20 Other Expenses (Note 6)	0	0	0	0.00%	0	0.00%	\$0	\$0
21 TOTAL EXPENSES (lines 11 thru 20)	\$3,882,702,991	\$565,276,438	\$4,447,979,429	100.00%	\$4,447,979,429	19.13%	\$850,954,710	\$3,597,024,719
22 Return (line 6 minus line 21)	1,359,858,490	(57,695,976)	\$1,302,162,514	100.00%	\$1,302,162,514	51.51%	\$670,793,733	\$631,368,782
23								
24 Non-Operating Income	19,982,161	44,592,145	34,609,984	100.00%	34,609,984			
25 AFUDC (Debt and Equity)	54,092,815	0	54,092,815	100.00%	54,092,815			

\* Include supporting documentation for "other adjustments"

\*\* No inputs are made into the revenue (top) portion of this column, revenues for wholesale transmission are directly input into the top part of column 7. See Schedule I instructions for additional details on calculating the percentage inputs in the bottom portion of this column.

\*\*\* The revenues in this column should reflect the payments received from others for wholesale transmission service per the commission's wholesale transmission matrix. See instructions for additional details.

Note 1 See instructions for details regarding the reporting of revenues. Additionally, note that column 8 of this line should correspond to Schedule X 1a, line 13, column 11.

Note 2 This amount will be carried automatically from Schedule II, line 12.

Note 3 Columns 1, 3, and 5 for this line will be carried automatically from Supplementary Schedule I-1: Amortization Expense, line 22.

Note 4 Columns 3, 5, 7, and 8 of this line will be carried automatically from Schedule IV, line 41.

Note 5 This amount will be carried automatically from Schedule Ia, line 23, and includes only the NBP expenses included in the utility's T&D revenue requirement (i.e., not collected through a separate order).

Note 6 This amount will be carried automatically from Supplementary Schedule I-2: Other Expenses, line 22.

[X] Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV.

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule Ia

SUMMARY OF OTHER NONBYPASSABLE CHARGES

<u>Line</u>	<u>Texas Jurisdictional</u>
1	<b>REVENUES RELATED TO NONBYPASSABLE CHARGES</b>
2	Nuclear Decommissioning Expense \$23,655,630
3	Competition Transition Charge (CTC) \$0
4	Municipal Franchise Fees \$0
5	System Benefit Fund \$0
6	Rate Case Expense (\$155)
7	Transmission Cost Recovery Factor (TCRF) \$1,688,775,584
8	Energy Efficiency Cost Recovery Factor (EECRF) \$77,973,986
9	Distribution Cost Recovery Factor (DCRF) \$199,733,426
10	Remand Surcharge (Docket Nos. 46884 and 46957) (\$1,415)
11	Interest-rate Savings Refund (ISR & WISR - Docket Nos. 53320, 54053 & 54735) (\$5,970,644)
12	Subtotal \$1,984,166,612
13	
14	Transition Charges (related to securitized costs) \$0
15	<b>TOTAL NONBYPASSABLE CHARGES</b> \$1,984,166,612
16	
17	
18	Amounts related to above NBP charges to be reflected in Sched I revenue requirement
19	<b>(actual amounts of expenses incurred during monitoring period)</b>
20	Nuclear Decommissioning Charges \$0
21	Municipal Franchise Fees \$0
22	System Benefit Fund \$0
23	<b>Total (Note 1)</b> \$0
24	

Note 1 The amount on line 18 is carried automatically to Schedule I, line 19

[X] Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule I

OPERATIONS AND MAINTENANCE EXPENSE

Line	(1) Total Company	(2) Non-Regulated or Non-Electric or Other Adjustments*	(3) Total Electric (1)+(2)	(4) Allocation Percentage (5)/(3)	(5) Tx Jurisdictional Wholesale and Retail	(6) Wholesale Transmission Allocation Percentage**	(7) Wholesale Transmission	(8) Retail T&D
1	Transmission Operations Expenses	\$9,080,170	\$2,848,902	91.00%	\$91,829,073	98.74%	\$90,669,027	\$1,160,046
2	Transmission Maintenance Expenses	\$31,251,094	\$2,891,870	100.00%	\$34,172,964	99.25%	\$33,916,028	\$256,936
3	Distribution Operations Expense	\$157,810,490	\$10,765	100.00%	\$157,114,254	0.27%	\$425,091	\$156,689,173
4	Distribution Maintenance Expenses	\$200,842,567	\$197,687	100.00%	\$200,840,254	0.24%	\$476,976	\$200,363,278
5	Customer Accounts Expense	\$22,012,629	(\$129)	100.00%	\$22,012,629	0.00%	\$0	\$22,012,629
6	Customer Service and Informational Expense	\$50,993,345	\$0	100.00%	\$50,993,345	0.00%	\$0	\$50,993,345
7	Sales Expense	\$0	\$0	0.00%	\$0	0.00%	\$0	\$0
8	Wholesale transmission matrix payments to others	\$1,162,755,446	\$524,520,138	N/A	\$1,688,775,584	N/A	N/A	\$1,688,775,584
9	Admin and General Operations Expenses	\$551,445,474	\$55,121,268	100.00%	\$556,567,340	15.02%	\$83,605,924	\$472,961,417
10	Admin and General Maintenance Expenses	\$3,625,585	\$51,144	100.00%	\$3,676,829	17.18%	\$1,734,637	\$1,942,192
11								
12	TOTAL OPERATIONS AND MAINTENANCE EXP	\$2,217,257,088	\$588,725,194	100.00%	\$2,805,982,282	7.51%	\$210,827,683	\$2,595,154,599

\* Include supporting documentation for "other adjustments"

\*\* See instructions for Schedule II to calculate this column

[X] Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV



INVESTED CAPITAL AT END OF REPORTING PERIOD

Line		(1) Total Company	(2) Non-Regulated or Non-Electric or Other Adjustments*	(3) Total Electric (1)+(2)	(4) Allocation Percentage (5)/(3)	(5) Tx Jurisdictional Wholesale and Retail	(6) Wholesale Transmission Allocation Percentage**	(7) Wholesale Transmission	(8) Retail T&D
1	Plant In Service	\$ 31,255,742,284	\$ 52,311,218	\$33,348,053,502	100.00%	\$33,348,053,502	44.44%	\$14,819,995,061	\$18,528,058,441
2	Accumulated Depreciation (Note 2)	\$ (9,054,232,874)	\$ (1,436,979,097)	(10,491,211,971)	100.00%	(\$10,491,211,971)	35.65%	(\$3,740,214,212)	(\$6,750,997,759)
3									
4	Net Plant In Service (lines 1 thru 2)	24,201,509,410	(1,344,667,879)	22,856,841,531	100.00%	22,856,841,531	48.47%	11,079,780,849	11,777,060,682
5	Construction Work In Progress	\$ 953,409,771	\$ 1,254,571	954,663,292	100.00%	\$954,663,292	55.20%	\$527,548,433	\$427,114,859
6	Plant Held For Future Use	\$ 47,785,408	\$0	47,785,408	100.00%	\$47,785,408	91.06%	\$43,798,406	\$3,987,002
7	Working Cash Allowance	\$ (24,252,897)	\$0	(24,252,897)	100.00%	(\$24,252,897)	-0.05%	\$12,539	(\$24,265,436)
8	Materials and Supplies	\$ 203,625,961	\$0	203,625,961	100.00%	\$203,625,961	49.20%	\$100,182,551	\$103,443,410
9	Prepayments	\$ 110,419,525	\$ (149,678)	110,269,847	100.00%	\$110,269,847	4.26%	\$4,701,992	\$105,567,855
10	Other Invested Capital Additions (Note 1)	515,751,125	(106,008,825)	409,744,300	100.00%	409,744,300	16.70%	\$68,413,226	\$341,331,074
11	Deferred Federal Income Taxes (Note 2)	(3,528,508,197)	\$0	(3,528,508,197)	100.00%	(\$3,528,508,197)	45.89%	(\$1,617,896,967)	(\$1,910,611,230)
12	Advances For Construction (Note 2)	\$ (162,100)	\$0	(162,100)	100.00%	(\$162,100)	0.00%	\$0	(\$162,100)
13	Property Insurance Reserve (Note 2)	\$ 743,528,871	\$0	743,528,871	100.00%	\$743,528,871	3.58%	\$26,646,361	\$716,882,510
14	Injuries and Damages Reserve (Note 2)	\$0	\$0	0	0.00%	\$0	0.00%	\$0	\$0
15	Customer Energy Prepayments (Note 2)	\$0	\$0	0	0.00%	\$0	0.00%	\$0	\$0
16	Unclaimed Dividends (Note 2)	\$0	\$0	0	0.00%	\$0	0.00%	\$0	\$0
17	Other Invested Capital Deductions (Note 3)	(1,508,824,189)	1,431,167,050	(77,657,139)	100.00%	(77,657,139)	17.33%	(\$13,455,787)	(\$64,201,352)
18									
19									
20	TOTAL INVESTED CAPITAL (lines 4 thru 17)	\$21,714,281,638	(\$18,402,761)	\$21,695,878,877	100.00%	\$21,695,878,877		\$10,219,731,602	\$11,476,147,275
21									
22	Less: CWIP and PHFU (Note 4)			\$957,250,951		\$957,250,951	55.18%	\$528,039,983	\$429,210,968
23	Plus: Ending CWIP in Rate Base			\$0		\$0	0.00%	\$0	\$0
24									
25	TOTAL INVESTED CAPITAL--ADJUSTED			\$20,738,628,826		\$20,738,628,826		\$9,691,691,618	\$11,046,937,208
26									
27	Return (Schedule I, line 22)			\$1,302,162,514		\$1,302,162,514		\$670,793,733	\$631,368,782
28	Rate of Return (line 27 / line 25)			6.28%		6.28%		6.92%	5.72%
29	Earned Return on Ending Equity (based on reported capital structure in Sch. V)			8.69%		8.69%		10.12%	7.43%
30	(Line 28 will automatically calculate correctly only after Schedules I, II,								
31	III, IV, and V are ALL completed.)								
32									
33	<b>Weather-Adjusted Data</b>								
34	Return (Schedule I, line 22 - adjusted)			\$1,249,959,456		\$1,249,959,456		\$670,793,733	\$579,165,724
35	Rate of Return (line 34 / line 25)			6.03%		6.03%		6.92%	5.24%
36	Earned Return on Ending Equity (based on reported capital structure in Sch. V)			8.12%		8.12%		10.12%	6.37%
37	(Line 36 will automatically calculate correctly only after Schedules I, II,								
38	III, IV, and V are ALL completed.)								

\* Include supporting documentation for "other adjustments."

\*\* See instructions for Schedule III to calculate this column.

Note 1: This amount will be carried automatically from Supplementary Schedule III-1: Other Rate Base Additions, line 22.

Note 2: These items are typically DEDUCTIONS from invested capital and thus should normally be entered as NEGATIVE amounts.

Note 3: This amount will be carried automatically from Supplementary Schedule III-2: Other Rate Base Deductions, line 22.

Note 4: Include the appropriate amounts from lines 5 and 6 (only PHFU balances falling outside the 10-year construction window are excluded).

(X) Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV.

**SCHEDULE K**  
**Page 8 of 37**

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

**FEDERAL INCOME TAXES**

Schedule IV  
Page 1 of 1

Line No.	(1) Total Electric	(2) Allocation Percentage (3)/(1)	(3) Texas Jurisdictional	(4) Wholesale Transmission	(5) Retail
1 TOTAL REVENUES (Note 1)	\$5,750,141,943	100.00%	\$5,750,141,943	\$1,521,748,442	\$4,228,393,501
2 LESS:					
3 Operations and Maintenance Expense	\$2,805,982,282	100.00%	\$2,805,982,282	\$210,827,683	\$2,595,154,599
4 Amortization Expense	\$71,700,698	100.00%	\$71,700,698	\$17,885,209	\$53,815,489
5 Depreciation Expense	\$834,799,508	100.00%	\$834,799,508	\$396,312,676	\$438,486,832
6 Interest on Customer Deposits	\$106	100.00%	\$106	\$0	\$106
7 Taxes Other Than Income Taxes	\$561,047,882	100.00%	\$561,047,882	\$132,080,996	\$428,966,886
8 State Income Taxes	\$27,225,303	100.00%	\$27,225,303	\$5,189,639	\$22,035,664
9 Deferred Expenses	\$0	0.00%	\$0	\$0	\$0
10 Other Expenses	\$0	0.00%	\$0	\$0	\$0
11 Nonbypassable charges (from Schedule I)	\$0	0.00%	\$0	\$0	\$0
12 Interest Included in Return (Note 2)	\$495,653,229	100.00%	\$495,653,229	\$231,631,430	\$264,021,799
13 ADD:					
14 Depreciation Addback - Permanent Differences	0	0.00%	0	0	0
15 Business Meals Not Deductible	602,000	100.00%	602,000	132,561	469,439
16 Other Permanent Differences	0	0.00%	0	0	0
17 LESS:					
18 Preferred Dividend Exclusion	0	0.00%	0	0	0
19 Other Permanent Differences (Attach Detail)	1,295,355	100.00%	1,295,355	312,568	982,787
20 Additional Tax Depreciation (Note 3)	218,944,044	100.00%	218,944,044	115,211,891	103,732,153
21 Other Timing Differences (Attach Detail)	178,538,594	100.00%	178,538,594	100,637,622	77,900,972
22					
23 OTHER:					
24 Other adj. not shown elsewhere (Notes 8 & 9)	0	0.00%	0	0	0
25					
26 TAXABLE INCOME	555,556,942		555,556,942	311,791,289	243,765,653
27 TAX RATE	21%		21%	21%	21%
28					
29 CURRENT FEDERAL INCOME TAXES (Note 4)	116,666,958	100.00%	116,666,958	65,476,171	51,190,787
30 ADD:					
31 Current Provision for Deferred Taxes (Note 5)	83,471,354	100.00%	83,471,354	45,328,398	38,142,956
32 Adjustment for Prior Flowthrough (Note 6)	505,312	100.00%	505,312	229,323	275,989
33 LESS:					
34 Amortization of Investment Tax Credits	722,820	100.00%	722,820	328,225	394,592
35 Amortization of Excess Deferred Taxes					
36 a Protected (Note 7)	22,126,157	100.00%	22,126,157	9,676,792	12,447,365
37 b Unprotected (Attach Detail)	30,159,703	100.00%	30,159,703	12,181,735	17,977,968
38 OTHER:					
39 Other adj. not shown elsewhere (Notes 8 & 9)	(410,994)	100.00%	(410,994)	(186,630)	(224,364)
40					
41 TOTAL FEDERAL INCOME TAXES	\$147,223,650	100.00%	\$147,223,650	\$88,658,507	\$58,565,143

Note 1: Lines 1 through 11 will be carried automatically from Schedule I.

Note 2: This amount will be calculated automatically by applying the weighted cost of debt to the total invested capital.

Note 3: Excess of tax depreciation over depreciation claimed on Schedule I adjusted to remove the effects of Line 14 for all plant reflected in Schedule III.

Note 4: This amount will be calculated automatically by applying the applicable statutory tax rate for the report period on line 27 to the taxable income found on Line 26.

Note 5: This amount will be calculated automatically by applying the applicable statutory tax rate for the report period on line 27 to the total of Lines 20 and 21.

Note 6: This amount will be derived by multiplying non-normalized timing differences times the applicable statutory tax rate for the report period on line 27.

Note 7: This amount may reflect the most recent year end balance.

Note 8: Enter additions as positive amounts and deductions as negative amounts.

Note 9: Include detailed accounting of this line's components on Supplemental Schedule IV.

1X. Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV.

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule V

Weighted Average Cost of Capital

Line	(a) Balance	(b) Percent of Total	(c) Cost	(d) Weighted Cost
1 Common Equity	\$ 9,113,950,744 (a)	44.77%	9.80% *	4.39%
2 Preferred Stock		0.00%	0.00%	0.00%
3 Long-Term Debt	11,243,135,174	55.23%	4.32%	2.38%
4 Short-Term Debt		0.00%	0.00%	0.00%
5				
6 Total	\$20,357,085,918	100.00%		6.78%

\*This return on equity was  
allowed in Docket No. 46957  
The final order was issued on 10/13/2017

Notes: The costs and balances of preferred stock, long-term debt, and short-term debt  
should correspond with those provided on Schedules VI, VII, VIII, and IX

[X] Indicate here if footnote or comment relating to this schedule is included on Supp Sched IV

(a) Adjustments to Equity

Membership interests (10-K \$13,462 million)	\$ 13,461,367,053
Excluding the effects of the 2007 merger (Docket No. 34077) and impacts of OCI	(3,671,382,398)
Regulated equity - compliance with Oncor's debt-to-equity ratio requirement (Docket No. 48929)	\$ 9,790,004,655
Less Docket No. 48929 equity contribution supporting Oncor NTU acquisition goodwill	(676,053,911)
Regulated equity	\$ 9,113,950,744

Docket No. 48929 Order, Ordering Paragraph No. 25: Oncor and the North Texas Utility (Oncor NTU) must not seek recovery of the goodwill recorded as an asset on Oncor's books as a result of the proposed transactions through Oncor's rates and must exclude that goodwill amount from Oncor's rate base.

\* Docket No. 46957 rates were in effect during 2022 through April 2023. Allowed return on equity of 9.7% was approved in the order in Docket No. 53601 on April 6, 2023. Docket No. 53601 rates were effective beginning May 1, 2023.

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Weighted Average Cost of Capital

Line		(a) Balance	(b) Percent of Total
1	Common Equity incl. Docket No. 48929 equity contribution supporting Oncor NTU acquisition goodwill	\$ 9,790,004,655 (a)	46.55%
2	Preferred Stock		0.00%
3	Long-Term Debt	11,243,135,174	53.45%
4	Short-Term Debt		0.00%
5			
6	Total	\$21,033,139,829	100.00%

Return on equity was  
allowed in Docket No.  
The final order was issued on

46957  
10/13/2017

Notes: The costs and balances of preferred stock, long-term debt, and short-term debt  
should correspond with those provided on Schedules VI, VIa, VII, VIIa, and VIII

[X] Indicate here if footnote or comment relating to this schedule is included on Supp Sched IV.

(a) Adjustments to Equity:

Membership interests	\$ 13,461,387,053
Excluding the effects of the 2007 merger (Docket No. 34077) and impacts of OCI	(3,671,382,398)
Regulated equity - compliance with Oncor's debt-to-equity ratio requirement (Docket No. 48929)	\$ 9,790,004,655

Docket No. 48929 Order, Ordering Paragraph No. 18 The cash equity contributions invested by Oncor's owners used to directly finance the transactions contemplated by the asset exchange agreement dated October 18, 2018 must be included in the calculations reported in Oncor's earnings-monitoring report solely for purposes of determining compliance with Oncor's debt-to-equity ratio requirement as set by finding of fact 56 in the final order in Docket No. 47675

\* Docket No. 46957 rates were in effect during 2022 through April 2023. Allowed return on equity of 9.7% was approved in the order in Docket No. 53601 on April 6, 2023. Docket No. 53601 rates were effective beginning May 1, 2023

Weighted Average Cost of Preferred Stock (Note 1)

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
Line	Description	Issuance Date	Mandatory Redemption (Y/N)	Dividend Rate	Par Value at Issuance	Premium or (Discount)	Underwriting Fees and Issuance Expenses	Gain or (Loss) on Redeemed Stock	Original Net Proceeds	Par Value Currently Outstanding	Current Net Proceeds	As % of Total Net Proceeds	Cost of Money	Weighted Average Cost
1	None								\$0	0.000%	\$0	\$0	0.000%	0.000%
							Total			\$0	\$0	0.000%		0.000%
							Plus: Unamortized Premium (Discount)			\$0				
							Less: Unamortized Fees and Issuance Expenses			\$0				
							Plus: Unamort. Gains (Losses) on Redeemed Stock			\$0				
							Net Balance of Preferred Stock			\$0				

Note 1: Exclude pre-September 1996 long-term debt and preferred stock transaction costs if they are being amortized as a cost-of-service item per the final order in the company's unbundled cost-of-service docket.  
[ ] Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule VIa

Adjusted Cost of Preferred Stock

LINE		
1	Balance of Unamortized Gains (Losses) on	\$0
2	Redeemed Stock (Sched.VI)	
3	- Balance Related to Gains (Losses) Identified	\$0
4	in Col.(h) of Schedule VI	
5		
6	Net Balance of Unamortized Gains (Losses) Not	\$0
7	Accounted for in Col.(h) of Schedule VI	
8		
9		
10	Annual Amortization of Gains (Losses) on	\$0
11	Redeemed Stock	
12	- Annual Amortization Related to Gains (Losses)	\$0
13	Identified in Col.(h) of Schedule VI	
14		
15	Net Annual Amortization of Gains (Losses) Not	\$0
16	Accounted for in Col.(h) of Schedule VI	
17		
18		
19	Net Balance of Preferred Stock (Sched VI)	\$0
20	- Net Balance of Unamortized Gains (Losses) from Line 6	\$0
21		
22	Preferred Stock Balance Excluding Net Gains (Losses)	\$0
23		
24	x Weighted Average Cost of Preferred Stock (Sched.VI)	0.00%
25		
26	Annual Preferred Stock Requirement	\$0
27		
28	- Net Amortization of Gains (Losses) from Line 15	\$0
29		
30	Adjusted Annual Preferred Stock Requirement	\$0
31		
32	Adjusted Cost of Preferred Stock (Line 30/Line 19)	0.00%

[ ] indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV.

Weighted Average Cost of Long-Term Debt (Note 1)

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
Line	Description	Issuance Date	Maturity Date	Interest Rate	Principal Amount of Issuance	Premium or (Discount)	Underwriting Fees and Issuance Expenses	Gain or (Loss) on Recaptured Debt	Original Net Proceeds	Net Proceeds As % of Par	Principal Currently Outstanding	Current Net Proceeds	As % of Total Net Proceeds	Cost of Debt	Weighted Average Cost
1	Secured Notes	12/20/2017	12/20/27	7.000%	500,000,000	(1,203,060)	6,327,137	\$0	\$496,407,843	97.282%	483,174,000	\$480,063,139	4.306%	7.223%	0.311%
2	Secured Notes	12/20/2017	12/20/27	7.000%	500,000,000	(5,005,600)	1,637,858	\$0	\$341,356,101	97.530%	323,487,000	\$315,478,383	2.830%	7.156%	0.211%
3	Secured Notes	08/15/2018	08/15/28	7.000%	500,000,000	(916,600)	2,311,498	\$0	\$295,753,312	98.584%	300,000,000	\$298,753,312	2.653%	7.620%	0.202%
4	Secured Notes	08/15/2018	08/15/28	7.000%	175,000,000	(12,453,630)	1,261,431	\$0	\$466,622,566	98.236%	175,000,000	\$468,622,566	4.186%	6.568%	0.225%
5	Secured Notes	11/13/2011	12/13/31	6.500%	600,000,000	5,630,000	50,427,224	\$0	\$355,111,673	88.778%	400,000,000	\$355,111,673	3.185%	6.761%	0.169%
6	Secured Notes	11/13/2011	12/13/31	6.200%	500,000,000	11,250,000	6,150,678	\$0	\$493,604,125	98.721%	317,558,000	\$343,409,275	3.080%	5.368%	0.169%
7	Secured Notes	12/14/2015	12/14/25	7.000%	350,000,000	(988,000)	3,075,567	\$0	\$345,958,143	98.845%	380,000,000	\$345,958,143	3.103%	3.885%	0.096%
8	Secured Notes	12/14/2015	12/14/25	7.000%	550,000,000	9,735,500	6,256,253	\$0	\$553,083,247	100.561%	580,000,000	\$553,083,247	4.961%	3.719%	0.185%
9	Secured Notes	06/15/2017	06/01/25	3.000%	500,000,000	(1,611,750)	1,170,619	\$0	\$320,764,375	98.697%	325,000,000	\$320,764,375	2.877%	3.874%	0.111%
10	Secured Notes	07/16/2018	11/16/28	3.000%	650,000,000	11,811,500	5,591,260	\$0	\$655,920,140	100.911%	650,000,000	\$655,920,140	5.884%	3.593%	0.211%
11	Secured Notes	08/13/2017	11/15/28	4.100%	550,000,000	(341,000)	5,222,000	\$0	\$444,336,500	98.741%	550,000,000	\$444,336,500	3.986%	4.173%	0.165%
12	Secured Notes	10/26/2018	11/15/28	3.700%	318,300,000	-	3,157,572	\$0	\$315,190,128	99.014%	318,300,000	\$315,190,128	2.827%	5.870%	0.168%
13	Secured Notes	10/26/2018	12/13/28	3.850%	171,000,000	-	1,119,591	\$0	\$172,580,008	99.184%	174,000,000	\$172,580,009	1.548%	4.903%	0.062%
14	Secured Notes	08/16/2018	11/13/28	3.750%	18,000,000	-	517,579	\$0	\$37,482,471	98.638%	38,000,000	\$37,482,471	0.336%	4.006%	0.014%
15	Secured Notes	12/28/2018	12/28/28	2.750%	500,000,000	(127,000)	4,218,433	\$0	\$495,683,567	99.133%	500,000,000	\$495,683,567	4.446%	2.937%	0.131%
16	Secured Notes	12/28/2018	12/28/28	2.750%	500,000,000	(18,000)	5,391,433	\$0	\$491,388,567	98.278%	500,000,000	\$491,388,567	4.409%	3.876%	0.172%
17	Secured Notes	08/15/2019	08/15/29	2.750%	500,000,000	(3,828,000)	2,012,610	\$0	\$688,458,384	98.351%	700,000,000	\$688,458,384	6.176%	3.186%	0.197%
18	Secured Notes	12/08/2020	12/08/30	2.750%	700,000,000	(15,000)	3,541,765	\$0	\$705,129,235	100.876%	700,000,000	\$709,129,235	6.334%	2.651%	0.168%
19	Secured Notes	12/08/2020	12/08/30	2.750%	500,000,000	(13,100)	3,418,803	\$0	\$365,400,097	91.350%	400,000,000	\$365,400,097	3.270%	4.209%	0.138%
20	Secured Notes	12/08/2020	12/08/30	3.500%	700,000,000	(1,000)	3,248,568	\$27,858,583	\$295,751,600	98.584%	300,000,000	\$295,751,500	2.653%	5.444%	0.144%
21	Secured Notes	12/08/2020	12/08/30	3.500%	450,000,000	(12,077,500)	4,735,125	\$0	\$442,597,365	98.355%	450,000,000	\$442,597,365	3.970%	0.087%	0.035%
22	Secured Notes	11/15/2021	11/15/31	3.200%	500,000,000	(8,500,000)	5,828,367	\$0	\$484,567,000	96.913%	500,000,000	\$484,567,000	4.347%	2.654%	0.124%
23	10% 2400 Subordinated Debentures	11/15/2021	11/15/31	1.000%	1,140,000	1,140,000	-	\$0	\$3,145,941	100.000%	2,818,007	\$2,816,007	0.025%	1.600%	0.000%
24	10% 2400 Subordinated Debentures	11/15/2021	11/15/31	1.000%	500,000	500,000	-	\$0	\$834,146	100.000%	748,157	\$748,157	0.007%	1.600%	0.000%
25	10% 2400 Subordinated Debentures	12/15/2022	12/15/32	2.100%	700,000	700,000	-	\$0	\$989,614	100.000%	830,870	\$830,820	0.008%	2.100%	0.000%
26	Secured Notes	11/16/2022	11/16/32	4.150%	300,000,000	(1,756,000)	3,810,000	\$0	\$64,602,000	98.651%	400,000,000	\$64,602,000	3.540%	1.317%	0.153%
27	Secured Notes	11/16/2022	11/16/32	4.150%	400,000,000	(3,812,000)	3,930,000	\$0	\$62,458,000	98.116%	400,000,000	\$62,458,000	3.520%	1.718%	0.166%
28	10% 2400 Subordinated Debentures	12/15/2022	12/15/32	4.000%	500,000,000	-	2,577,500	\$0	\$49,732,500	99.959%	100,000,000	\$49,958,846	0.897%	4.053%	0.036%
29	Secured Notes	08/28/2022	08/28/32	7.500%	700,000,000	(579,000)	5,103,000	\$0	\$692,918,000	98.968%	700,000,000	\$692,918,000	6.216%	4.578%	0.291%
30	Secured Notes	08/28/2022	08/28/32	7.500%	500,000,000	(710,000)	5,790,500	\$0	\$491,873,500	98.375%	500,000,000	\$491,873,500	4.412%	5.055%	0.223%

Total	\$11,349,626,984	\$11,148,014,406	100.000%	4.274%
Unamortized Premium (Discount)		\$526,962,545		
Less: Unamortized Fees and Issuance Expenses		\$33,173,720		
Plus: Unamortized Gains (Losses) on Recaptured Debt		\$10,616,051		
Net Balance of Debt		\$11,243,135,174		

Note 1: Exclude pre-September 1998 long-term debt and preferred stock transactions if they are being amortized at a cost of service less than the final order in the company's unamortized cost of service deck.  
1: Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule VIIa

Adjusted Cost of Long-Term Debt

LINE		
1	Balance of Unamortized Gains (Losses) on	\$10,646,064
2	Reacquired Debt (Sched VII)	
3	- Balance Related to Gains (Losses) Identified	\$25,975,671
4	in Col (h) of Schedule VII	
5		
6	Net Balance of Unamortized Gains (Losses) Not	(\$15,329,607)
7	Accounted for in Col.(h) of Schedule VII	
8		
9		
10	Annual Amortization of Gains (Losses) on	(\$3,767,769)
11	Reacquired Debt	
12	- Annual Amortization Related to Gains (Losses)	\$873,132
13	Identified in Col.(h) of Schedule VII	
14		
15	Net Annual Amortization of Gains (Losses) Not	(\$4,640,901)
16	Accounted for in Col (h) of Schedule VII	
17		
18		
19	Net Balance of Debt (Sched VII)	\$11,243,135,174
20	- Net Balance of Unamortized Gains (Losses) from Line 6	(\$15,329,607)
21		
22	Debt Balance Excluding Net Gains (Losses)	\$11,258,464,781
23		
24	x Weighted Average Cost of Debt (Sched VII)	4.27%
25		
26	Annual Debt Requirement	\$481,138,380
27		
28	- Net Amortization of Gains (Losses) from Line 15	(\$4,640,901)
29		
30	Adjusted Annual Debt Requirement	\$485,779,280
31		
32	Adjusted Cost of Debt (Line 30/Line 19)	4.32%

[ ] Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV



Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule VIII

Weighted Average Cost of Short-Term Debt

Line				End of Monitoring Period 12 Months Ending December 31, 2022			
	Balance at end of 2019	Balance at end of 2020	Balance at end of 2021	(a) Balance Outstanding	(b) Balance As a % of Total	(c) Average Cost	(d) Weighted Average Cost
1 Bank Loans	\$0	\$0	\$0	\$0	0.00%	0.00%	0.00%
2 Other - Commercial pay	46,000,000	70,000,000	215,000,000	198,000,000	100.00%	4.58%	4.58%
3							
4 Total Notes Payable	\$46,000,000	\$70,000,000	\$215,000,000	\$198,000,000	100.00%		4.58%

[ ] Indicate here if footnote or comment relating to this schedule is included on Supp Sched IV

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule IX

Historical Financial Statistics  
(Total Company Basis)

Line	Fiscal Year	2018	2019	2020	2021	Monitoring Period
1	Total Debt as a Percent	57.33%	57.29%	54.92%	55.00%	55.20%
2	of Total Capital					
3						
4	CWIP as a Percent of Net Plant	2.59%	3.02%	2.79%	2.43%	3.78%
5						
6	Construction Expenditures as a	16.31%	15.76%	15.64%	14.02%	15.52%
7	Percent of Average Total Capital					
8						
9	Pre-Tax Interest Coverage	2.82	2.95	2.93	3.10	3.29
10						
11	Funds From Operations / Total Debt	20.57%	17.19%	16.92%	16.93%	16.59%
12						
13						
14	Fixed Charge Coverage	2.80	2.94	2.92	3.09	3.27
15						
16	Fixed Charge Coverage (Including	2.80	2.94	2.92	3.09	3.27
17	Distributions on Pref Trust Securities)					
18						
19	Funds From Operations Interest Coverage	4.65	4.73	4.64	4.95	4.98
20						
21	Net Cash Flow / Capital Outlays	63.57%	56.20%	48.39%	34.96%	48.01%
22						
23						
24	Cash Coverage of Common Dividends	6.33	4.65	4.39	2.02	4.38
25						
26	AFUDC and Deferrals as a Percent	2.38%	3.96%	6.73%	5.15%	5.97%
27	of Net Income for Common					
28						
29	Return on Average Common Equity	12.16%	11.61%	10.18%	9.76%	10.45%

[ ] Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV

Revenues, Sales, and Customer Data  
Unadjusted Revenue (\$)  
(Texas Jurisdiction Only / Retail T&D Only)

			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Line	Year	Month	Residential	Secondary less than or equal to 10 kW	Secondary greater than 10 kW	Primary less than or equal to 10 kW	Primary greater than 10 kW (Distribution Line)	Primary greater than 10 kW (Substation)	Transmission	Lighting	(Over)/Under-Collection of Wholesale Transmission Costs	Reconcilable EECRF Weather Adjustment	Total [Column (1) to (10)]
1	2022	1	145,838,084	7,425,680	1,306,423	104,352	13,128,175	2,522,554	8,928,465	5,230,522	3,966,231	0	320,209,340
2	2022	2	180,839,641	8,009,571	1,235,555	110,332	12,582,103	2,746,245	9,193,084	5,184,885	(11,824,177)	0	340,398,027
3	2022	3	162,371,871	7,880,463	1,242,877	100,240	11,828,778	3,073,521	9,457,924	5,204,539	2,162,560	0	336,367,074
4	2022	4	170,340,042	7,237,840	1,210,111	101,294	14,526,796	2,906,466	9,852,003	5,200,046	23,472,417	0	314,548,426
5	2022	5	178,701,028	7,263,898	1,219,999	101,052	13,658,367	2,912,754	9,846,070	5,198,588	20,934,216	0	320,612,907
6	2022	6	175,133,261	7,993,447	1,259,038	103,410	14,126,111	2,929,930	10,042,675	5,192,094	(717,577)	0	352,342,339
7	2022	7	233,648,169	8,914,660	1,316,444	99,591	24,454,139	2,983,824	9,932,308	5,188,771	(24,936,404)	0	391,949,993
8	2022	8	253,620,315	9,246,474	1,341,846	103,948	24,645,415	2,894,106	10,308,341	5,186,083	(35,612,328)	0	404,586,049
9	2022	9	234,774,120	8,915,035	1,164,084	101,707	15,453,796	2,953,814	10,610,592	5,184,162	(34,925,295)	0	399,515,367
10	2022	10	179,961,544	8,013,048	1,342,241	98,621	15,078,113	2,909,540	10,273,788	5,182,198	(17,583,746)	0	345,157,887
11	2022	11	175,771,117	1,869,418	1,288,889	96,885	14,846,787	2,918,544	10,316,333	5,177,537	10,805,199	0	316,989,886
12	2022	12	151,851,313	7,710,349	1,262,961	98,270	14,892,988	3,092,005	10,410,098	4,987,420	(2,055,560)	0	329,285,015
13	Totals (Note 2)		2,090,359,628	95,858,418	1,544,483,995	1,219,700	289,223,200	34,843,304	119,171,682	62,116,846	(66,314,463)	0	4,170,962,310
14													
15	Monitoring Period												
16	Average (lines 1 thru 12)		174,196,636	7,988,202	1,287,707,000	101,642	24,101,933	2,903,609	9,830,973	5,176,404	(5,526,205)	0	347,580,192

Note 1: As allowed, the column headings above have been relabeled to reflect the customer classes arising from the stipulated agreement approved in the final order in Docket No. 46957.

Note 2: Column 11 of this line should correspond to line 7, column 8 of Schedule I.

Revenues, Sales and Customer Data  
Weather-adjusted Revenue (\$)  
(Texas Jurisdiction Only / Retail T&D Only)

Line	Year	Month	(1) Residential	(2) Secondary less than or equal to 10 kW	(3) Secondary greater than 10 kW	(4) Primary less than or equal to 10 kW	(5) Primary greater than 10 kW (Distribution Line)	(6) Primary greater than 10 kW (Substation)	(7) Transmission	(8) Lighting	(9) (Over)/Under-Collection of Wholesale Transmission Costs	(10) Reconcilable EECRF Weather Adjustment	(11) Total <small>(Sum of Columns (1) to (10))</small>
1	2022	1	161,332,059	7,765,299	123,068,754	104,352	13,127,575	2,522,554	8,928,465	5,230,522	(5,718,607)	(450,925)	331,910,043
2	2022	2	168,783,519	7,828,739	123,534,467	110,237	12,582,573	2,746,245	9,193,084	5,184,885	(6,394,849)	272,180	333,841,231
3	2022	3	145,359,972	7,605,061	124,250,676	100,240	21,628,955	3,073,521	9,457,924	5,204,539	9,093,395	507,812	326,482,937
4	2022	4	116,685,399	7,172,599	120,998,034	101,294	24,525,815	2,906,466	9,852,003	5,200,046	24,923,004	112,128	312,477,760
5	2022	5	117,944,307	7,079,047	121,873,320	101,052	23,657,319	2,912,754	9,846,070	5,198,588	25,320,014	422,991	314,355,462
6	2022	6	155,062,189	7,651,210	126,766,381	103,410	24,125,473	2,829,930	10,042,675	5,192,094	7,706,628	746,252	340,326,322
7	2022	7	197,447,155	8,385,899	131,338,974	99,521	24,452,529	2,983,824	9,932,308	5,188,771	(10,198,419)	1,310,251	370,940,881
8	2022	8	217,053,143	8,696,589	133,871,198	103,946	24,643,812	2,894,106	10,308,341	5,186,083	(20,723,188)	1,328,075	383,362,605
9	2022	9	239,547,220	9,023,453	148,442,896	101,702	25,454,095	2,953,814	10,610,592	5,184,162	(37,206,616)	(151,408)	401,958,911
10	2022	10	176,270,422	999,390	134,208,165	98,621	25,078,606	2,909,540	10,273,788	5,182,198	(17,252,208)	33,084	344,801,597
11	2022	11	120,674,902	7,244,715	128,880,548	96,888	24,846,908	2,918,544	10,316,333	5,177,537	8,930,201	(107,107)	317,999,469
12	2022	12	146,105,992	7,597,663	128,292,447	98,270	24,893,003	3,092,005	10,410,098	4,987,420	605,635	141,739	326,424,272
13		Totals	1,977,486,887	94,050,491	1,543,525,855	1,219,700	289,217,664	34,843,304	119,171,682	62,116,846	(20,915,011)	4,165,072	4,104,682,490
14													
15	Monitoring Period												
16	Average (lines 1 thru 12)		164,790,574	7,837,541	128,627,155	101,642	24,101,472	2,903,609	9,930,973	5,176,404	(1,742,916)	347,069	342,073,541

Note: As allowed, the column headings above have been relabeled to reflect the customer classes arising from the stipulated agreement approved in the final order in Docket No. 46957.

Revenues, Sales, and Customer Data  
Weather-adjustments to Revenue (\$)  
(Texas Jurisdiction Only / Retail T&D Only)

			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Line	Year	Month	Residential	Secondary less than or equal to 10 kW	Secondary greater than 10 kW	Primary less than or equal to 10 kW	Primary greater than 10 kW (Distribution Line)	Primary greater than 10 kW (Substation)	Transmission	Lighting	(Over)/Under-Collection of Wholesale Transmission Costs	Reconcilable EECRF Weather Adjustment	Total
Z Columns (1) to (10)													
1	2022	1	21,493,967	338,614	4,480	0	(602)	0	0	0	(9,684,837)	(450,925)	11,700,703
2	2022	2	(12,056,052)	(180,933)	(21,479)	0	70	0	0	0	5,429,328	272,180	(6,556,796)
3	2022	3	(17,011,819)	(274,563)	(36,501)	0	178	0	0	0	5,930,835	507,812	(9,884,137)
4	2022	4	(3,554,624)	(95,241)	(13,487)	0	19	0	0	0	1,450,587	112,128	(2,070,667)
5	2022	5	(10,756,721)	(184,850)	(123,814)	0	(1,049)	0	0	0	4,385,798	422,981	(6,257,445)
6	2022	6	(20,670,982)	(342,287)	(171,845)	0	(1,249)	0	0	0	8,424,205	746,252	(12,016,016)
7	2022	7	(36,201,013)	(548,763)	(305,952)	0	(1,810)	0	0	0	14,737,965	1,310,251	(21,009,112)
8	2022	8	(35,525,672)	(549,885)	(313,498)	0	(1,603)	0	0	0	14,889,140	1,328,075	(21,223,444)
9	2022	9	4,774,100	68,423	33,450	0	700	0	0	0	(2,281,321)	(151,406)	2,444,544
10	2022	10	(691,121)	(13,658)	(16,005)	0	(127)	0	0	0	331,538	33,084	(356,290)
11	2022	11	1,922,666	57,797	11,106	0	122	0	0	0	(1,874,998)	(107,107)	2,009,584
12	2022	12	(5,545,321)	(114,586)	(5,584)	0	15	0	0	0	2,651,195	141,739	(2,860,743)
13	Totals		(112,872,742)	(1,807,927)	(958,140)	0	(5,536)	0	0	0	45,399,452	4,165,072	(66,079,820)
14													
15	Monitoring Period												
16	Average (lines 1 thru 12)		(9,406,062)	(150,651)	(79,845)	0	(461)	0	0	0	3,783,288	347,089	(5,506,652)

Note: As allowed, the column headings above have been relabeled to reflect the customer classes arising from the stipulated agreement approved in the final order in Docket No. 45957

Revenues, Sales, and Customer Data  
Unadjusted Sales (MWH)  
(Texas Jurisdiction Only / Retail T&D Only)

			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Line	Year	Month	Residential	Secondary less than or equal to 10 kW	Secondary greater than 10 kW	Primary less than or equal to 10 kW	Primary greater than 10 kW (Distribution Line)	Primary greater than 10 kW (Substation)	Transmission	Lighting	Total Σ Columns (1) to (8)
1	2022	1	3,326,269	145,608	3,437,605	2,484	1,451,083	531,337	1,890,119	31,782	10,816,288
2	2022	2	4,172,977	162,146	3,515,451	7,952	1,425,180	554,517	1,891,810	31,658	11,760,703
3	2022	3	3,930,526	158,625	3,555,567	2,278	1,339,354	548,926	1,513,944	31,553	11,381,313
4	2022	4	2,881,175	140,157	3,518,067	2,435	1,539,478	562,465	2,010,089	31,395	10,695,303
5	2022	5	2,109,927	140,795	3,668,610	2,375	1,542,120	588,398	2,068,960	31,306	11,152,691
6	2022	6	4,325,099	161,405	4,204,617	2,591	1,582,712	502,431	2,034,526	31,183	12,924,565
7	2022	7	5,321,141	183,153	4,782,281	2,275	1,642,550	581,663	1,987,867	31,051	15,017,080
8	2022	8	6,337,216	197,254	5,071,213	2,614	1,718,698	618,164	2,162,138	31,011	16,138,298
9	2022	9	4,922,510	172,315	4,611,180	2,550	1,677,178	599,471	2,114,348	30,973	14,130,624
10	2022	10	3,847,824	153,237	4,094,254	2,358	1,710,262	559,150	2,126,773	30,891	12,519,798
11	2022	11	2,675,545	131,194	3,481,591	2,190	1,610,369	564,391	2,266,515	30,750	10,762,645
12	2022	12	3,269,477	145,242	3,473,938	2,352	1,682,814	590,110	2,171,949	27,637	11,363,520
13		Totals	48,624,782	1,896,226	47,414,679	29,455	18,926,629	6,861,024	24,538,845	371,190	148,662,829
14											
15		Monitoring Period									
16		Average (lines 1 thru 12)	4,052,065	158,019	3,951,223	2,455	1,577,219	571,752	2,044,904	30,932	12,388,569

Note: As allowed, the column headings above have been relabeled to reflect the customer classes arising from the stipulated agreement approved in the final order in Docket No. 46957.

Revenues, Sales, and Customer Data  
Weather-adjusted Sales (MWH)  
(Texas Jurisdiction Only / Retail T&D Only)

			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Line	Year	Month	Residential	Secondary less than or equal to 10 kW	Secondary greater than 10 kW	Primary less than or equal to 10 kW	Primary greater than 10 kW (Distribution Line)	Primary greater than 10 kW (Substation)	Transmission	Lighting	Total Σ Columns (1) to (8)
1	2022	1	3,646,359	150,205	3,447,032	2,484	1,441,823	531,337	1,890,119	31,782	11,346,178
2	2022	2	2,581,234	157,021	2,424,212	2,952	1,430,253	554,517	1,891,816	31,650	11,419,694
3	2022	3	2,490,817	150,834	2,339,983	2,273	1,342,820	548,926	1,813,944	31,553	10,879,433
4	2022	4	2,799,296	138,944	2,660,352	2,435	1,539,797	552,495	2,010,089	31,395	10,580,718
5	2022	5	2,831,897	155,547	2,676,350	2,375	1,524,931	588,398	2,068,960	31,306	10,658,167
6	2022	6	3,790,813	151,687	3,639,126	2,591	1,552,237	582,431	2,034,526	31,183	12,090,157
7	2022	7	4,485,448	172,573	4,312,875	2,275	1,616,456	561,663	1,987,667	31,051	13,559,097
8	2022	8	4,391,640	181,642	4,210,000	2,514	1,692,409	618,164	2,162,138	31,011	14,658,882
9	2022	9	4,031,463	174,147	3,857,316	2,550	1,682,089	599,471	2,114,348	30,973	14,300,302
10	2022	10	3,827,066	152,922	3,674,144	2,358	1,708,173	559,150	2,126,773	30,891	12,476,461
11	2022	11	2,754,985	132,741	2,622,244	2,190	1,612,364	564,391	2,266,515	30,750	10,873,061
12	2022	12	3,143,039	142,226	2,999,813	2,352	1,683,058	590,110	2,171,949	27,637	11,225,386
13	Totals		45,684,289	1,844,888	43,839,401	29,455	18,836,410	6,861,024	24,538,845	371,190	144,067,534
14											
15	Monitoring Period										
16	Average (lines 1 thru 12)		3,807,024	153,741	3,653,283	2,455	1,569,701	571,752	2,044,904	30,932	12,005,628

Note: As allowed, the column headings above have been relabeled to reflect the customer classes arising from the stipulated agreement approved in the final order in Docket No. 46957.

Revenues, Sales, and Customer Data  
Weather-adjustments to Sales (MWH)  
(Texas Jurisdiction Only / Retail T&D Only)

			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Line	Year	Month	Residential	Secondary less than or equal to 10 kW	Secondary greater than 10 kW	Primary less than or equal to 10 kW	Primary greater than 10 kW (Distribution Line)	Primary greater than 10 kW (Substation)	Transmission	Lighting	Total Σ Columns (1) to (8)
1	2022	1	520,120	9,597	9,433	0	(9,260)	0	0	0	529,890
2	2022	2	(291,738)	(5,125)	(45,218)	0	1,073	0	0	0	(341,008)
3	2022	3	(439,709)	(7,795)	(57,302)	0	2,926	0	0	0	(501,880)
4	2022	4	(91,878)	(1,852)	(21,173)	0	319	0	0	0	(114,584)
5	2022	5	(278,030)	(5,248)	(194,057)	0	(17,189)	0	0	0	(494,525)
6	2022	6	(534,286)	(9,718)	(269,929)	0	(20,475)	0	0	0	(834,409)
7	2022	7	(935,693)	(15,580)	(480,317)	0	(26,394)	0	0	0	(1,457,984)
8	2022	8	(945,377)	(15,612)	(492,147)	0	(26,280)	0	0	0	(1,479,416)
9	2022	9	108,854	1,831	54,082	0	4,911	0	0	0	169,678
10	2022	10	(15,758)	(366)	(25,126)	0	(2,088)	0	0	0	(43,338)
11	2022	11	89,440	1,547	17,434	0	1,994	0	0	0	110,415
12	2022	12	(126,438)	(3,016)	(8,924)	0	244	0	0	0	(138,134)
13		Totals	(2,940,493)	(51,337)	(1,513,245)	0	(90,220)	0	0	0	(4,595,295)
14											
15		Monitoring Period									
16		Average (lines 1 thru 12)	(245,041)	(4,278)	(126,104)	0	(7,518)	0	0	0	(382,941)

Note: As allowed, the column headings above have been relabeled to reflect the customer classes arising from the stipulated agreement approved in the final order in Docket No. 46957.



Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule X.3

Revenues, Sales, and Customer Data  
Weather Data (Residential)  
(Texas Jurisdiction Only / Retail T&D Only)

Line	Year	Month	(1) Cooling Degree Days	(2) Normal Cooling Degree Days	(3) Heating Degree Days	(4) Normal Heating Degree Days
1	2022	1	15	0	127	212
2	2022	2	1	2	254	211
3	2022	3	3	7	221	155
4	2022	4	28	26	58	46
5	2022	5	127	74	1	11
6	2022	6	288	207	0	0
7	2022	7	508	369	0	0
8	2022	8	586	446	0	0
9	2022	9	374	390	0	0
10	2022	10	223	219	1	3
11	2022	11	56	63	27	33
12	2022	12	9	10	134	116

13  
14  
15 Monitoring Period

16 Total (lines 1 thru 12) 2,218 1,815 823 789

[ ] Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV

Normal Cooling Degree and Heating Degree levels derived from the ten-year average temperature ranges from 2012-2021

Revenues, Sales, and Customer Data  
Weather Data (Secondary Service)  
(Texas Jurisdiction Only / Retail T&D Only)

Line	Year	Month	(1) Cooling Degree Days	(2) Normal Cooling Degree Days	(3) Heating Degree Days	(4) Normal Heating Degree Days
1	2022		19	4	266	446
2	2022	2	1	2	522	438
3	2022	3	4	6	444	212
4	2022	4	33	32	122	95
5	2022	5	146	67	3	24
6	2022	6	322	234	0	2
7	2022	7	543	405	0	0
8	2022	8	621	482	0	0
9	2022	9	405	404	0	0
10	2022	10	246	242	2	6
11	2022	11	64	71	60	71
12	2022	12	12	11	295	247

13  
14  
15 Monitoring Period

16 Total (lines 1 thru 12) 2,419 2,003 1,714 1,641

[ ] Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV

Normal Cooling Degree and Heating Degree levels derived from the ten-year average temperature ranges from 2012-2021

Revenues, Sales, and Customer Data  
Number of Delivery Points  
(Texas Jurisdiction Only / Retail T&D Only)

			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Line	Year	Month	Residential	Secondary less than or equal to 10 kW	Secondary greater than 10 kW	Primary less than or equal to 10 kW	Primary greater than 10 kW (Distribution Line)	Primary greater than 10 kW (Substation)	Transmission	Lighting	Total Σ Columns (1) to (8)
1	2022	1	3,252,685	305,632	205,877	3,113	7,144	130	285	55,114	3,837,390
2	2022	2	3,257,827	305,421	204,484	3,109	7,141	132	285	54,984	3,843,383
3	2022	3	3,272,159	306,483	204,226	3,119	7,101	133	285	54,848	3,848,374
4	2022	4	3,277,549	307,230	204,377	3,126	7,094	131	285	54,698	3,854,690
5	2022	5	3,283,333	307,848	204,584	3,116	7,100	131	287	54,558	3,860,967
6	2022	6	3,289,280	307,778	205,091	3,127	7,102	132	288	54,423	3,867,201
7	2022	7	3,295,222	306,632	205,995	3,133	7,107	132	290	54,275	3,872,786
8	2022	8	3,299,673	305,905	205,909	3,143	7,095	132	292	54,120	3,877,269
9	2022	9	3,303,533	305,386	207,070	3,135	7,103	132	294	53,922	3,880,876
10	2022	10	3,308,135	305,500	207,008	3,127	7,121	131	294	53,805	3,885,128
11	2022	11	3,313,916	305,623	207,297	3,122	7,121	131	294	53,723	3,890,627
12	2022	12	3,319,982	303,885	208,023	3,121	7,127	133	294	53,597	3,896,232
13											
14	Monitoring										
15	Period										
16	Average (lines 1 thru 12)		3,291,152	306,009	205,752	3,124	7,113	132	289	54,339	3,867,910

Note: As allowed, the column headings above have been relabeled to reflect the customer classes arising from the stipulated agreement approved in the final order in Docket No. 46957

[ ] Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule X.5

Revenues, Sales, and Customer Data  
Weather Adjustment Procedure

Please provide a brief explanation of the procedure that the company used to derive the weather-adjustment results provided in Schedules XI.1-XI.3. If models are used in the development of the weather-adjusted results, please provide a brief explanation of the models used.

Include all supporting workpapers.

Weather normalization adjustments are calculated in a six-step process. In the first step, system daily temperatures are converted into heating and cooling degree days using several reference temperatures (or bases), which are then combined using sales weights to obtain total system degree days by rate class. Second, the degree days for these multiple bases are then used, along with daily load research data, to determine the varying responses to different temperature levels by customer class. Third, daily degree days from the first step are spline-weighted and billing cycle adjusted to develop the appropriate monthly actual weather measures for inclusion in the weather normalization regressions. Fourth, monthly billed weather models by class are developed using spline-weighted heating and cooling degree days and other explanatory variables including indices of household size, household income, inflation-adjusted electric prices and appliance saturations and efficiencies.

Steps one through four serve to develop the weather adjustment coefficients or weather responsiveness. In the fifth step, daily normal degree days are calculated as the 31-day centered moving average of the simple 10-year average (2012-2021). These daily normal degree days are spline-weighted and billing cycle-adjusted to develop class normal degree day variables consistent with the variables employed in the regressions. In the final step, the regression coefficients for each of the final weather models are used along with applicable scaling factors, number of premises (if the predicted variable was use per premise), normal degree days and actual degree days to quantify monthly weather normalization adjustments by customer class.

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule X.6

Revenues, Sales, and Customer Data  
Other Adjustments to Revenue

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Did you experience in the monitoring period any of the following that might have affected your base revenue significantly:

- (a) major loss of load;
- (b) significant expansion;
- (c) any other event causing significant change in base revenue.

If yes, please explain. If possible, enumerate base revenue adjustments for each of these factors. (Note: Do not identify individual customers loads.)

- (a) No
- (b) No
- (c) No

Oncor Electric Delivery Company LLC (Including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule K1

COMPANY ADJUSTMENTS

For each adjustment, please provide a full description. Supporting worksheets (if any) should be provided as a supplemental attachment to the Earnings Report.

Ref Line	Description	Total Electric	Allocation Percentage	Texas Jurisdictional
Sch I, Ln 3	Record affiliate transmission matrix revenues	\$ 442,812,448	100%	\$ 442,812,448
Sch I, Ln 3	Record affiliate transmission matrix revenues - Oncor NTU	\$ 83,707,890	100%	\$ 83,707,890
Sch I, Ln 3	Record affiliate operating revenues for operations services provided to Oncor NTU	\$ 9,157,871	100%	\$ 9,157,871
Sch I, Ln 3	Remove Energy Efficiency performance bonus recognized (Docket No. 23471)	\$ (28,028,733)	100%	\$ (28,028,733)
Sch I, Ln 3	Remove EECRF revenues - collection of interest on under-recovery (Docket No. 22178)	\$ (87,814)	100%	\$ (87,814)
Sch I, Ln 3, Column (7)	Other revenues - rent from fiber optics	\$ 861,338	100%	\$ 861,338
Sch I, Ln 3, Column (7)	Other revenues - rent from antenna leases	\$ 15,188,821	100%	\$ 15,188,821
Sch I, Ln 3, Column (7)	Other revenues - rent from property & right of way	\$ 1,097,248	100%	\$ 1,097,248
Sch I, Ln 3, Column (7)	Other revenues - other electric - DC Tie	\$ 2,581,338	100%	\$ 2,581,338
Sch I, Ln 3, Column (7)	Other revenues - other electric - operations services	\$ 9,157,871	100%	\$ 9,157,871
Sch I, Ln 3, Column (7)	Other revenues - other electric	\$ 22,088,881	100%	\$ 22,088,881
Sch I, Ln 13	Reclass non-service costs for pension and OPEBs to depreciation from non-operating - other deductions (from GAAP to regulatory)	\$ 2,482,407	100%	\$ 2,482,407
Sch I, Ln 18	Reclass other taxes (ad valorem taxes) for non-utility property to non-operating	\$ (249,502)	100%	\$ (249,502)
Sch I, Ln 24	Reclass other taxes (ad valorem taxes) for non-utility property to non-operating (post-tax)	\$ (187,107)	100%	\$ (187,107)
Sch I, Ln 24	Reclass recoverable non-service costs for pension and OPEBs to depreciation from non-operating - other deductions for GAAP (net of FTY)	\$ 1,845,301	100%	\$ 1,845,301
Sch I, Ln 24	Reclass recoverable non-service costs for pension and OPEBs to O&M from non-operating - other deductions for GAAP (net of FTY)	\$ 42,071,426	100%	\$ 42,071,426
Sch II, Ln 8	Record affiliate transmission matrix costs	\$ 442,812,448	100%	\$ 442,812,448
Sch II, Ln 8	Record affiliate transmission matrix costs - Oncor NTU	\$ 83,707,890	100%	\$ 83,707,890
Sch II, Ln 1	Record affiliate operating costs incurred by Oncor NTU	\$ 3,849,842	100%	\$ 3,849,842
Sch II, Ln 2	Record affiliate operating costs incurred by Oncor NTU	\$ 2,881,870	100%	\$ 2,881,870
Sch II, Ln 3	Record affiliate operating costs incurred by Oncor NTU	\$ 112,900	100%	\$ 112,900
Sch II, Ln 4	Record affiliate operating costs incurred by Oncor NTU	\$ 187,887	100%	\$ 187,887
Sch II, Ln 9	Record affiliate operating costs incurred by Oncor NTU	\$ 2,084,228	100%	\$ 2,084,228
Sch II, Ln 10	Record affiliate operating costs incurred by Oncor NTU	\$ 51,144	100%	\$ 51,144
Sch II, Ln 1	Remove social club dues and fees	\$ (938)	100%	\$ (938)
Sch II, Ln 3	Remove social club dues and fees	\$ (8,135)	100%	\$ (8,135)
Sch II, Ln 5	Remove social club dues and fees	\$ (178)	100%	\$ (178)
Sch II, Ln 9	Remove social club dues and fees	\$ (197,332)	100%	\$ (197,332)
Sch II, Ln 9	Reclass recoverable non-service costs for pension and OPEBs to O&M from non-operating - other deductions for GAAP	\$ 53,254,970	100%	\$ 53,254,970
Sch III, Ln 1	Reclass recoverable non-service costs for pension and OPEBs to plant in service (from regulatory asset for GAAP)	\$ 135,237,583	100%	\$ 135,237,583
Sch III, Ln 1	Reclass HB 2483/PURA 39 918 Mobile Gen Capital leases - plant in service (GAAP operating lease - ROU asset)	\$ 4,889,702	100%	\$ 4,889,702
Sch III, Ln 1	Reclass Oncor NTU Plant Acquisition Adjustment - Docket No. 41430 to regulatory asset	\$ (22,474,788)	100%	\$ (22,474,788)
Sch III, Ln 7	Exclusion of plant in service - leasehold improvement offset by operating lease liability	\$ (19,251,400)	100%	\$ (19,251,400)
Sch III, Ln 2	Reclassify estimated net removal costs	\$ (1,431,167,050)	100%	\$ (1,431,167,050)
Sch III, Ln 2	Reclass recoverable non-service costs for pension and OPEBs to accumulated depreciation (from regulatory asset for GAAP)	\$ (7,895,252)	100%	\$ (7,895,252)
Sch III, Ln 2	Reclass HB 2483/PURA 39 918 Mobile Gen Capital leases - accumulated depreciation (GAAP operating lease - ROU asset)	\$ (587,988)	100%	\$ (587,988)
Sch III, Ln 2	Exclusion of accumulated depreciation - leasehold improvement offset by operating lease liability	\$ 2,581,193	100%	\$ 2,581,193
Sch III, Ln 5	Reclass recoverable non-service costs for pension and OPEBs to construction (from regulatory asset for GAAP)	\$ 1,254,571	100%	\$ 1,254,571
Sch III, Ln 9	Remove prepayment	\$ (149,878)	100%	\$ (149,878)
Sch III, Ln 22	Remove PHFU projects beyond 2032	\$ 2,586,759	100%	\$ 2,586,759
Suppl Sch I-1 Ln 3	Reclass amortization of plant acquisition adjustment - Oncor NTU (Docket No. 41430) from non-operating	\$ 977,879	100%	\$ 977,879
Sch I Ln 24	Reclass amortization of plant acquisition adjustment - Oncor NTU (Docket No. 41430) from non-operating	\$ 772,524	100%	\$ 772,524
Suppl Sch III-1	HB 2483/PURA 39 918 Mobile Gen Capital leases - return (non-GAAP)	\$ 315,268	100%	\$ 315,268
		Total Company	Allocation Percentage	Total Electric
Sch III, Ln 1	Remove non-regulated plant	\$ (6,159,858)	0%	\$

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Schedule XII

EXTRAORDINARY AND NONRECURRING ITEMS

A Reporting Period

Ref Schedule	Column	Line Number	Description	Total Electric	Texas Juris.
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B Prospective Period

Ref Schedule	Column	Line Number	Description	Total Electric	Texas Juris.
-----------------	--------	----------------	-------------	-------------------	-----------------

1	(1)	11 and 24	Total Company-wide off (pre-tax) in March 2023, as set forth in the Order approved April 6, 2023 in Docket No. 50601, of disallowances for certain employee benefit and compensation related costs that were previously capitalized primarily to plant in service 2017 through 2022.	\$ 68,681,180	\$ 68,681,180
---	-----	-----------	--	---------------	---------------

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Supplemental Schedule I-1

AMORTIZATION EXPENSE

Line	Description	Total Company	Total Electric	Texas Jurisdictional
1	Amortization of Intangible Plant	\$70,753,493	\$70,753,493	\$70,753,493
2	Amortization of plant acquisition adjustments	(30,674)	(30,674)	(30,674)
3	Amortization of plant acquisition adjustment - Oncor NTU (Docket No. 41430)	0	977,879	977,879
4		0	0	0
5		0	0	0
6		0	0	0
7		0	0	0
8		0	0	0
9		0	0	0
10		0	0	0
11		0	0	0
12		0	0	0
13		0	0	0
14		0	0	0
15		0	0	0
16		0	0	0
17		0	0	0
18		0	0	0
19		0	0	0
20		0	0	0
21				
22	Total Amortization Expense Other	\$70,722,819	\$71,700,698	\$71,700,698

Note: Include pre-September 1999 long-term debt and preferred stock transaction costs if they are being amortized as a cost-of-service item per the final order in the company's unbundled cost-of-service docket. The reported amount should also include any allowed return granted in the company's unbundled cost-of-service docket and not included as an addition to rate base. Post-September 1999 long-term debt and preferred stock transaction costs should be included in Schedule VIa and VIa.

[ ] Indicate here if footnote or comment relating to this schedule is included on Supp Sched IV

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Supplemental Schedule I-2

OTHER EXPENSES

Line	Description	Total Company	Total Electric	Texas Jurisdictional
1		\$0	\$0	\$0
2		0	0	0
3		0	0	0
4		0	0	0
5		0	0	0
6		0	0	0
7		0	0	0
8		0	0	0
9		0	0	0
10		0	0	0
11		0	0	0
12		0	0	0
13		0	0	0
14		0	0	0
15		0	0	0
16		0	0	0
17		0	0	0
18		0	0	0
19		0	0	0
20		0	0	0
21				
22	Total Other Expenses	\$0	\$0	\$0

[ ] Indicate here if footnote or comment relating to this schedule is included on Supp Sched IV



Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Supplemental Schedule II-1

Summary of 16 Tex. Admin. Code § 25.77 Expenditures

Line	Description	Total Electric	Texas Jurisdiction	FERC Account No.
1	Business gifts and Entertainment	\$373,204	\$373,204	580 921 930
2	Institutional Advertising	\$0	\$0	-
3	Consumption-Inducing Advertising	\$0	\$0	-
4	Other Advertising	\$2,071,903	\$2,071,903	903 908 921 923 930 931
5	Public Relations Expense	\$0	\$0	-
6	Legislative Advocacy (Note A)	\$3,375,540	\$3,375,540	426
7	Representation Before a Gov'l Body (Note B)	\$913,520	\$913,520	186
8	Legal Expenses (Note C)	\$14,410,829	\$14,410,829	107 108 182 186 232 426 921 923 925 930
9	Charitable, Civic, and Religious Donations	\$4,863,907	\$4,863,907	186 566 588 921 923 930 931
10	Political Contributions	\$0	\$0	-
11	Dues and Membership Fees	\$4,699,614	\$4,699,614	107,163 184 186 228 560 561 566 586 580 586 588 590 593 597 903 908 921 923 925 930 931 932
12				
13	Total	\$30,708,517	\$30,708,517	

Note A: Information shall include, but not be limited to, advocacy before any legislative body.

Note B: Information shall include representation before any governmental agency or body including municipalities.

Note C: Information shall include legal expenses not accounted for in other categories.

[ ] Indicate here if footnote or comment relating to this schedule is included on Supplemental Schedule IV.

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Supplemental Schedule III-1

OTHER INVESTED CAPITAL ADDITIONS  
End of Reporting Period

Line	Description	Total Company	Total Electric	Texas Jurisdictional
1	2005 Legislative Deferrals			
2	Retirement Plan Costs	\$ 104,607,455	\$ 104,607,455	\$ 104,607,455
3	Other Post-Employment Benefit Costs	14,568,361	14,568,361	14,568,361
4	Advanced Metering Costs including Under-Recovery	106,824,078	106,824,078	106,824,078
5	Bad Debt Expenses	8,091,839	8,091,839	8,091,839
6	Wholesale Distribution Substation Service	96,515,575	96,515,575	96,515,575
	Recoverable plant-related non-service costs			
7	pension/OPEBs for GAAP	127,542,311	0	0
	Recoverable construction-related non-service costs			
8	pension/OPEBs for GAAP	1,254,571	0	0
9	Oncor NTU Study Costs/Transition to Competition	2,436,072	2,436,072	2,436,072
10	Power Line Safety Act (PJRA 36 056)	10,434,514	10,434,514	10,434,514
11	COVID-19 Incremental Expenses (Project No. 50664)	36,940,726	36,940,726	36,940,726
12	Mobile Generators (HB 2453 & PURA 39 918)	1,943,229	2,258,498	2,258,498
13	Sharyland Interim Residential Rate	527,363	527,363	527,363
14	Ok! 46522 Capital structure refund (over-refund)	81,418	81,418	81,418
15	Ok! 48326 FIT refund - rate (over-refund)	2,364,715	2,364,715	2,364,715
16	Rocky Mount Series Compensator	1,518,898	1,518,898	1,518,898
	Oncor NTU Plant Acquisition Adjustment - Docket			
17	No. 41430	0	22,474,788	22,474,788
18		0		0
19		0	0	0
20		0	0	0
21				
22	Total Other Invested Capital Additions	\$515,751,125	\$409,744,300	\$409,744,300

11 Indicate here if footnote or comment relating to this schedule is included on Supp Sched IV

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Supplemental Schedule III-2

OTHER INVESTED CAPITAL DEDUCTIONS  
End of Reporting Period

Line	Description	Total Company	Total Electric	Texas Jurisdictional
1	Estimated Net Removal Costs	\$ 1,431,167,050	\$0	\$0
2	2005 Legislative Deferrals			
3	Other Post-Employment Benefit Costs	(60,388,070)	(60,388,070)	(60,388,070)
4	Over-amortization of intangible investment	(17,269,069)	(17,269,069)	(17,269,069)
5		0	0	0
6		0	0	0
7		0	0	0
8		0	0	0
9		0	0	0
10		0	0	0
11		0	0	0
12		0	0	0
13		0	0	0
14		0	0	0
15		0	0	0
16		0	0	0
17		0	0	0
18		0	0	0
19		0	0	0
20		0	0	0
21				
22	Total Other Invested Capital Deductions	(\$1,508,824,189)	(\$77,657,139)	(\$77,657,139)

[ ] Indicate here if footnote or comment relating to this schedule is included on Supp Sched IV

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Supplemental Schedule IV  
Page 1 of 1

COMMENTS/FOOTNOTES/PROPOSED ADJUSTMENTS

Ref. Schedule	Column	Line Number	Comments/Footnotes/Proposed Adjustments	Amount
I	(7)	3	Wholesale transmission revenues include payments received from the affiliate Retail T&D business for wholesale transmission service per the Commission's wholesale transmission matrix.	526,520,138
I	(8)	3	Retail T&D revenues exclude the Energy Efficiency performance bonus recognized (Docket No. 53671)	(28,029,733)
I	(8)	11	Expenses include the payments for wholesale transmission from Retail T&D to its affiliate wholesale transmission service providers per the Commission's wholesale transmission matrix.	526,520,138
Ia		2	Oncor Electric Delivery remits all collections for Nuclear Decommissioning Funds (NDF) directly to Vistra Operations Company LLC, where the funds are deposited in the Nuclear Decommissioning Trust. Oncor does not recognize NDF billings as revenues.	23,655,830
II	(5)	8	Expenses include the payments for wholesale transmission from Retail T&D to its affiliate wholesale transmission service providers per the Commission's wholesale transmission matrix.	526,520,138
IV	1	39	Research & Development Credit	(410,994)
V, Va	(a)	1	As shown in the footnote on Schedule V and Va, Common Equity excludes the effects of the merger per the commitments in Docket No. 34077 and impacts of OCI.	(3,671,382,388)
V	(a)	1	As shown in the footnote on Schedule V, Common Equity excludes the equity contribution supporting the goodwill per the commitments in Docket No. 48929.	(676,053,911)
I-V			Impacts from the determinations in the Order approved in Docket No. 53601 (2022 rate case) on April 6, 2023 are not included in this earnings report for 12 months ending December 31, 2022. Docket No. 46957 base rates were in effect during the 12 months ending December 31, 2022. The effective date of Docket No. 53601 rates is May 1, 2023.	
V, Va			Allowed return on equity in the Order approved in Docket No. 53601 (2022 rate case) on April 6, 2023 is 9.7%.	

Oncor Electric Delivery Company LLC (including Oncor NTU)  
12 Months Ending December 31, 2022

Supplemental Sched V

Special Rates

DEFINITION: Special rates include rates such as legislatively mandated rates

Please complete the information required by items 1, 2, 3, and 4 in the table below.

Answer the following in the table below:

1. Name and describe the qualification criteria for each special rate schedule available to customers and reported in each row of the following table. Separate jurisdictions should also be identified in this column.
2. Provide the total number of delivery points taking service at each special rate.
3. Provide the total actual base revenue recovered during the reporting period from all delivery points taking service at each special rate.
4. Assuming that special-rate services were provided at corresponding standard tariff rates, calculate the total amount of base revenues that would result.

Revenue Imputation for Special Rates

(1) Name of Special Rates	(2) Total Number of Delivery Pts	(3) Total Actual Base Revenues Recovered	(4) Total Amount of Base Revenues Assuming Standard Tariffs
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
	0	\$0	\$0
TOTAL		\$0	\$0

Revenue Imputation

Base Revenues at Standard Tariff	Col (4)	\$0
Less Actual Base Revenues	Col (3)	\$0

Signature Page  
Public Utility Commission of Texas--Earnings Report  
12 Months Ending December 31, 2022

I certify that I am the responsible official of Oncor Electric Delivery Company LLC;  
that I have examined the foregoing report; that to the best of my knowledge, information, and belief, all  
statements of fact contained in the said report are true and the said report is a correct statement of the  
business and affairs of the above-named respondent in respect to each and every matter set forth  
therein during the period from January 1, 2022 to December 31, 2022 inclusive.

May 11, 2023  
Date

  
Signature

Vice President and Controller  
Title

Address: 1616 Woodall Rodgers Freeway  
Dallas, TX 75202

Phone: (214) 486-3265

Email address: William.Ledbetter@oncor.com

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**Alternative** contact regarding this report:

Name: J. Michael Sherburne  
Title: Vice President - Regulatory

Address: 1616 Woodall Rodgers Freeway  
Dallas, TX 75202

Phone: (214) 486-4981

Email address: Mike.Sherburne@oncor.com

CAPITAL EXPENDITURES COMMITMENT

Line	(1)		(2)	
	12 Months Ending December 31, 2022		To Date December 31, 2022	
1	Capital Expenditures Commitment (Note 1)		\$	7,500,000,000
2	Less: Siting Delays			-
3	Less: Cancellations of Projects by Third-Parties			-
4	Less: Weaker than Expected Economic Conditions			-
5	Less: Oncor Determines Expenditure Would Not Be Prudent			-
6				
7	Adjusted Capital Expenditures Commitment		\$	7,500,000,000
8				
9				
10	Capital Expenditures			
11	Construction		\$	2,920,881,968
12	Costs to Remove Retired Property Less Salvage and Other Recoveries		\$	103,682,730
13				
14	TOTAL CAPITAL EXPENDITURES		\$	3,024,574,698
15				
16				
17	Total Capital Expenditures Above Commitment through December 31, 2022		\$	4,425,889,094
18				
19				
20				
21				

Note 1 Docket No. 47675 Capital Expenditure Commitment: Oncor shall make minimum capital expenditures equal to a budget of at least \$7.5 billion over the five-year period beginning January 1, 2018, and ending December 31, 2022, subject to the following adjustments to the extent reported to the Commission in Oncor's earnings monitor report: Oncor may reduce capital spending due to conditions not under Oncor's control, including, without limitation, siting delays, cancellations of projects by third-parties, weaker-than-expected economic conditions, or if Oncor determines that a particular expenditure would not be prudent.

Oncor Electric Delivery Company LLC  
Schedule MGR-1 - Revenue Requirement for Mobile Generation Rider ("MGR")  
Mobile Generation - HB 2483 and PURA Sec. 39.918  
15 Mobile Generators Leased - Update Period Ending 12-31-2022  
Sponsor: W. Alan Ledbetter

Line No	Description	Docket No. 53601 MGR Amount *	Update Period Amount **	Workpaper / Note
1	<u>Cost of service including return</u>			
2	O&M expense			
3	Mobile Generator Maintenance Fees (A592)	\$ 48,150.00	\$ 95,936.89	WP/Schedule MGR-1/2022
4	HB 2483 Mobile Generator Capital Leases - lease amortization of units 1 through 7 (A589)	\$ 449,450.00	\$ 449,450.00	WP/Schedule MGR-2/2022
5	HB 2483 Mobile Generator Capital Leases - lease amortization of units 8 through 15 (A589)		\$ 255,001.54	WP/Schedule MGR-3/2022
6	HB 2483 Mobile Gen. Regulatory asset amortization (five-year recovery)	\$ 5,217.60	\$ 451,699.50	WP/Schedule MGR-4/2022
7				
8	Depreciation expense - mobile generation general plant (A403)	\$ -	\$ 4,150.76	WP/Schedule MGR-5/2022
9				
10	Taxes other than income			
11	Ad valorem tax - leased property (A589)	\$ -	\$ 82,453.00	WP/Schedule MGR-6/2022
12	Ad valorem tax - owned general plant (A408)	\$ -	\$ 837.88	Owned gen'l plant * rate
13	Texas Gross Margin tax (TGMT A409.1)	\$ 3,948.19	\$ 9,562.57	Revenue * TGMT gross-up rate
14				
15	Federal income tax	\$ 34,682.00	\$ 66,878.89	FIT gross-up on equity return
16				
17	Return (rate base times return)	\$ 210,589.34	\$ 405,671.52	Invested capital * return of 6.65%
18	Return/invested capital	6.65%	6.65%	Return/WACC of 6.65%
19				
20	<u>Invested Capital / Rate Base for Mobile Generation Units at December 31, 2022</u>			
21	Capital lease - plant account 362 station equipment (original NPVs)	\$ 3,146,147.48	\$ 4,969,701.61	Balance @ December 31 for 2021 and 2022
22	Capital lease - plant account 362 station equipment acc. depr. reserve	\$ -	\$ (697,988.22)	Balance @ December 31, 2022
23	General plant - placed in service in December 2022 (A392 & A394)	\$ -	\$ 47,349.48	WP/Schedule MGR-5/2022
24	Regulatory asset - HB2483 Mobile Generators	\$ 26,088.00	\$ 2,258,497.49	WP/Schedule MGR-4/2022
25	ADFIT - regulatory asset	\$ (5,478.48)	\$ (474,284.47)	WP/Schedule MGR-7/2022
26	ADFIT - general plant	\$ -	\$ (1,117.02)	WP/Schedule MGR-7/2022
27	Total invested capital/rate base for mobile generators	\$ 3,166,757.00	\$ 6,102,158.87	
28				
29	Revenue Requirement/Cost of Service Requested for Mobile Generation Facilities - 15 units leased at December 31, 2022:			
30				
31		MGR	Updated MGR	MGR Effective rates MGR Update Effective rates Tax gross-ups
32	Revenue Requirement for Mobile Generation Rider	\$ 752,037.14	\$ 1,821,442.55	
33	O&M expenses	\$ 502,817.60	\$ 1,252,087.93	
34	Depreciation expense - general plant	\$ -	\$ 4,150.76	8.77%
35	Taxes other than income - ad valorem taxes (leased & owned)	\$ -	\$ 83,080.88	1.92%
36	Taxes other than income - TGMT	\$ 3,948.19	\$ 9,562.57	0.525%
37	Interest (weighted cost of debt)	\$ 80,118.95	\$ 154,079.51	2.53%
38	Federal income tax	\$ 34,682.00	\$ 66,878.89	21.000%
39	Equity Return	\$ 130,470.39	\$ 251,592.01	4.123%
40				
41	Docket No. 53601 order on rehearing FoF No. 190 - overall rate of return:			
42		Debt	57.5%	4.39%
43		Equity	42.5%	9.70%
44		WACC		6.65%
45				

\* Seven Mobile Generators Leased at 12-31-2021 MGR approved in Docket Nos. 53601 and 54817 (September 2023 billing). Docket No. 53601, Item No. 914, Commission Number Run, native file 6--Dkt 53601 - Revenue Requirement Model - Commission Number Run, Worksheet Oncor's Mobile Generation WP  
\*\* Total of 15 Mobile Generators Leased at 12-31-2022.



Schedule A : Summary of Distribution Cost of Service (DCOS)

Distribution Cost Recovery Factor Oncor Electric Delivery Company LLC Oncor DCRF Baseline, 12/31/2021 Test Year					
Line No.	Description	Balance Approved Per Rate Case Final Order (1)	Exclusions for DCRF (2)	Balance Approved For DCRF (3) = (1) + (2)	Reference Schedule
1	Operation & Maintenance , including (A&G)	2,538,516,451	(2,538,516,451)	-	Docket No. 53601
2	Depreciation and Amortization	543,360,740	(32,269,230)	511,091,510	E-1
3	Taxes Other Than Income Taxes	458,954,797	(315,657,939)	143,296,858	E-2
4	Federal Income Tax	68,683,857	(14,477,773)	54,206,084	E-3
5	Return on Rate Base	641,314,733	(87,781,292)	553,533,441	B
6	Total Revenue Requirement	4,250,830,577	(2,988,702,685)	1,262,127,892	
7	Other Revenues	(70,078,084)	70,078,084	-	Docket No. 53601
8	<b>Total</b>	<b>\$4,180,752,493</b>	<b>(\$2,918,624,601)</b>	<b>\$1,262,127,892</b>	

Docket No. 53601 order on rehearing DCRF Baseline to be filed in Compliance Docket No. 54817

Schedule B: Summary of Distribution Rate Base

Distribution Rate Base Oncor Electric Delivery Company LLC Oncor DCRF Baseline, 12/31/2021 Test Year					
Line No.	Description	Balance Approved Per Rate Case Final Order (1)	Exclusions for DCRF (2)	Balance Approved For DCRF (3) = (1) - (2)	Reference Schedules
1	Direct Assigned:				
2	Original Plant In Service	16,698,730,341		16,698,730,341	B-1
3	(Accumulated Depreciation)	(6,534,021,048)		(6,534,021,048)	B-5
3	Net Plant In Service	10,164,709,293	0	10,164,709,293	
4	Allocated Plant Accounts- Net	262,412,268	262,412,268	-	Docket No. 53601
5	CWIP	-	-	-	Docket No. 53601
6	Working Capital	(12,898,686)	(12,898,686)	-	Docket No. 53601
7	Plant Held for Future Use	1,745,979	1,745,979	-	Docket No. 53601
8	Regulatory Assets/Liabilities excluding non-tax	903,452,153	903,452,153	-	Docket No. 53601
9	Other	176,276,176	176,276,176	-	Docket No. 53601
10a	Accumulated Deferred FIT (ADFIT) - Non Plant	5,949,630	5,949,630	-	Docket No. 53601
10b	Excess ADFIT - Non Plant	(16,918,089)	(16,918,089)	-	Docket No. 53601
10c	Acc. ADFIT & Excess ADFIT - Non Plant	(10,968,459)	(10,968,459)	-	Docket No. 53601
10d	Accumulated Deferred FIT (ADFIT) - Plant Related	(1,260,470,111)		(1,260,470,111)	E-3 10
10e	Protected Excess ADFIT - Plant Related *	(491,578,167)		(491,578,167)	E-3 10
10f	Non-protected Excess ADFIT - Plant Related *	(88,849,874)		(88,849,874)	E-3 10
10g	Acc. ADFIT & Excess ADFIT - Plant Related	(1,840,898,152)		(1,840,898,152)	B-7, L 24, Col 5; E-3 10
11	Subtotal	(783,290,989)	1,057,607,163	(1,840,898,152)	
12	Total Rate Base	9,643,830,572	1,320,019,431	8,323,811,141	
13	Rate of Return	6.65%	6.65%	6.65%	Docket No. 53601
14	Return on Rate Base	\$641,314,733	\$87,781,292	\$553,533,441	

\* Docket No. 53601 Order Finding of Fact No. 370

Non-tax related regulatory assets	903,452,153	Line 8
Tax-related regulatory assets/(liabilities)	(597,346,130)	(details below)
Total - Regulatory assets/(liabilities)	306,106,023	
Less plant-related excess deferred taxes	(580,428,041)	Lines 10e & 10f
Regulatory Assets excl plant-related excess deferred FIT	886,534,064	
Materials & Supplies	74,796,188	
Prepayments	104,576,673	
Other Rate Base Items	(3,096,684)	
Other	176,276,176	Line 9
ADFIT plant-related liability	(1,260,470,111)	Line 10b
ADFIT non-plant related liability	(211,669,351)	Line 10a
ADFIT non-plant related asset	217,618,981	Line 10a
Total - ADFIT	(1,254,520,481)	
Protected excess deferred taxes	(491,578,167)	Line 10e
Non-protected excess deferred taxes		
Oncor plant-related basis differences	(97,762,907)	Line 10f
Oncor non-plant temporary differences	(16,918,089)	Line 10b
Oncor excess reserve plant-related	8,913,033	Line 10f
Total - Tax-related regulatory assets/(liabilities)	(597,346,130)	Excess deferred federal income taxes
Plant-related excess deferred taxes	(580,428,041)	Lines 10e & 10f
Non-tax related regulatory assets	903,452,153	Line 8
Oncor non-plant temporary differences	(16,918,089)	Line 10b
Reg assets excl plant-related excess DFITs	886,534,064	

Schedule B-1: Distribution Plant

Distribution Plant Oncor Electric Delivery Company LLC Oncor DCRF Baseline, 12/31/2021 Test Year			Reference Schedule Worksheet	Balance Approved Per Rate Case Final Order (1)
Line No	Account No	Description		
<b>Distribution Intangible Plant</b>				
1a	A303	Miscellaneous Intangible Plant - 3 year life		214,681.57
1b	A303	Miscellaneous Intangible Plant - 5 year life		18,575,397.65
1c	A303	Miscellaneous Intangible Plant - 8 year life		172,777,633.63
1d	A303	Miscellaneous Intangible Plant - 15 year life		481,308,731.46
1e	A303	Miscellaneous Intangible Plant - 7 year life (AMS)		146,167,816.21
1f		<b>Sub-Total</b>		<b>819,044,261</b>
<b>Transmission Plant</b>				
2	A352	Structures and Improvements		-
3a	A353	Station Equipment		330,462,584
3b	A353	Station Equipment - SVC		51,398,067
4		<b>Sub-Total</b>		<b>381,860,651</b>
<b>Distribution Plant</b>				
5a	A360	Land and Land Rights (substation)		4,537,807
5b	A360	Land and Land Rights		18,508,221
6	A361	Structures and Improvements		137,062,053
7	A362	Station Equipment		1,757,053,883
8	A363	Storage Battery Equipment		-
9	A364	Poles, Towers & Fixtures		2,678,358,261
10	A365	O.H. Conductors & Devices		1,675,410,858
11	A366	Underground Conduits		1,082,118,478
12	A367	U.G. Conductors & Devices		2,553,927,528
13	A368	Line Transformers		2,493,077,762
14	A369	Services		1,652,238,990
15a	A370	Meters		199,955,073
15b	A370	Meters (IDR)		162,996,844
15c	A370	Meters (AMR/AMS)		211,195,565
16	A371	Install on Customer Prem		54,631,097
17	A372	Leased Prop on Cust Premises		-
18	A373	Street Lights		437,403,826
19	A374	Land Owned in Fee		71,344,821
20		<b>Sub-Total</b>		<b>15,189,821,069</b>
<b>General Plant</b>				
21a	A391	Office furniture and equipment - computer equipment		219,019,754
21b	A391	Office furniture and equipment - computer equipment (AMS)		16,170,086
22a	A397	Communication Equipment (amortized)		24,799,846
22b	A397	Communication Equipment Dkt 53601 disallowance (amortized)		(35,767,189)
22c	A397	Communication Equipment (depreciated)		42,233,358
22d	A397	Communication Equipment (routers)		41,548,504
23		<b>Sub-Total</b>		<b>308,004,360</b>
24		<b>TOTAL</b>		<b>16,698,730,341</b>

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A388	Land Owned in Fee	25,876,197
A389	Land and Land Rights	82,104
A390	Structures and Improvements	179,909,716
A391	Office Furniture and Equipment- excluding computer equipment	11,853,979
A392	Tools, Shop and Garage Equipment	12,716,429
A393	Stores Equipment	3,803,355
A394	Tools, Shop and Garage Equipment	28,551,509
A395	Laboratory Equipment	21,471,308
A396	Power Operated Equipment	8,557,216
A398	Miscellaneous Equipment	6,947,719
	<b>Subtotal</b>	<b>299,769,532</b>
	<b>Total Plant</b>	<b>16,998,499,873</b>

Schedule B-5: Distribution Accumulated Depreciation

Distribution Accumulated Depreciation Oncor Electric Delivery Company LLC Oncor DCRF Baseline, 12/31/2021 Test Year			Reference Schedule Worksheet	Balance Approved Per Rate Case Final Order (1)
Line No.	Account No.	Description		
<b>Accumulated Depreciation</b>				
<b>Distribution Intangible Plant</b>				
1a	A303	Miscellaneous Intangible Plant - 3 year life		94,990
1b	A303	Miscellaneous Intangible Plant - 5 year life		4,056,315
1c	A303	Miscellaneous Intangible Plant - 8 year life		71,612,442
1d	A303	Miscellaneous Intangible Plant - 15 year life		133,556,545
1e	A303	Miscellaneous Intangible Plant - 7 year life (AMS)		144,110,138
1f		Sub-Total		353,430,430
<b>Transmission Plant</b>				
2	A352	Structures and improvements		0
3a	A353	Station Equipment		75,028,805
3b	A353	Station Equipment - SVC		22,141,672
4		Sub-Total		97,170,477
<b>Distribution Plant</b>				
5a	A360	Land and Land Rights (substation)		928,018
5b	A360	Land and Land Rights		8,767,327
6	A361	Structures and Improvements		41,745,978
7	A362	Station Equipment		463,683,929
8	A363	Storage Battery Equipment		0
9	A364	Poles, Towers & Fixtures		1,107,719,584
10	A365	O H Conductors & Devices		635,328,009
11	A366	Underground Conduits		452,193,524
12	A367	U G Conductors & Devices		578,041,306
13	A368	Line Transformers		743,686,994
14	A369	Services		1,097,314,113
15a	A370	Meters		25,049,410
15b	A370	Meters (IDR)		89,799,408
15c	A370	Meters (AMR/AMS)		221,391,040
16	A371	Install on Customer Prem		75,069,053
17	A372	Leased Prop on Cust Premises		0
18	A373	Street Lights		372,032,657
19	A374	Land Owned in Fee		0
20		Sub-Total		5,912,750,349
<b>General Plant</b>				
21a	A391	Office furniture and equipment - computer equipment		107,929,875
21b	A391	Office furniture and equipment - computer equipment (AMS)		12,803,166
22a	A397	Communication Equipment (amortized)		4,370,243
22b	A397	Communication Equipment (depreciated)		4,018,003
22c	A397	Communication Equipment (routers)		41,548,504
23		Sub-Total		170,669,791
24		TOTAL		\$6,534,021,048

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A388	Land Owned in Fee	-
A389	Land and Land Rights	13,719
A390	Structures and Improvements	15,143,311
A391	Office Furniture and Equipment- excluding computer equipment	783,998
A392	Tools, Shop and Garage Equipment	2,889,835
A393	Stores Equipment	756,988
A394	Tools, Shop and Garage Equipment	11,021,309
A395	Laboratory Equipment	3,404,154
A396	Power Operated Equipment	2,862,611
A398	Miscellaneous Equipment	681,340
	Subtotal	37,357,264
	Total accumulated depreciation	\$6,571,378,312